

# ALLFETT®

## LUBRICATION SYSTEMS



Instructions manual  
Parts and diagrams

Prepared for : Labrie Environmental Group  
Manual number : Reference manual  
Equipment : Labrie Side Loader arm  
\*9 POINTS\*

V.1507.01





## Identification Sheet

### Parts used on installation

#### Pump and accessories

Part No	Description	
AG15.45.12.S	ALL-1 pump, 4.5L 12V DC standard EC, with piston Ø6	X
BG10.65.01.00	Mounting plate for pump (Standard)	X
BG10.50.45.00	Teflon Low level grease indicator monobloc 4.5L	X

#### Hoses

Part No	Description	
EG15.14.00.ME	Protective loom (1/4")	X
EG05.06.00.PI	Pre-filled high pressure hose (6mm)	X

#### Fittings

Part No	Description	
DG30.RG.00.035	Bolt for progressive distributor fixation M5x35mm	X
DG10.MB.00.06	Monobloc progressive divider valve MBS-6	X
DG40.MB.CV.00	Check valve for MBS progressive monobloc distributor	X
DG40.MB.PG.00	Plug for MBS monobloc progressive distributor	X
EG45.00.18.HP	High pressure grease nipple	X
EG92.03.18.18	Brass tee M x F x F 1/8" NPT	X
EG63.03.M10.M10	Square elbow 90° M x F (M10)	X
EG75.03.18.M10	Extension coupling 18mm M (M10) x F (M10)	X
EG68.M10.06.00	Swivel coupling 90° M10 x 6mm double compression	X
RE-LI246002-1	Lincoln Swivel Adapter	X
RE-LI246002-2	Lincoln hose stud for swivel Adapter	X





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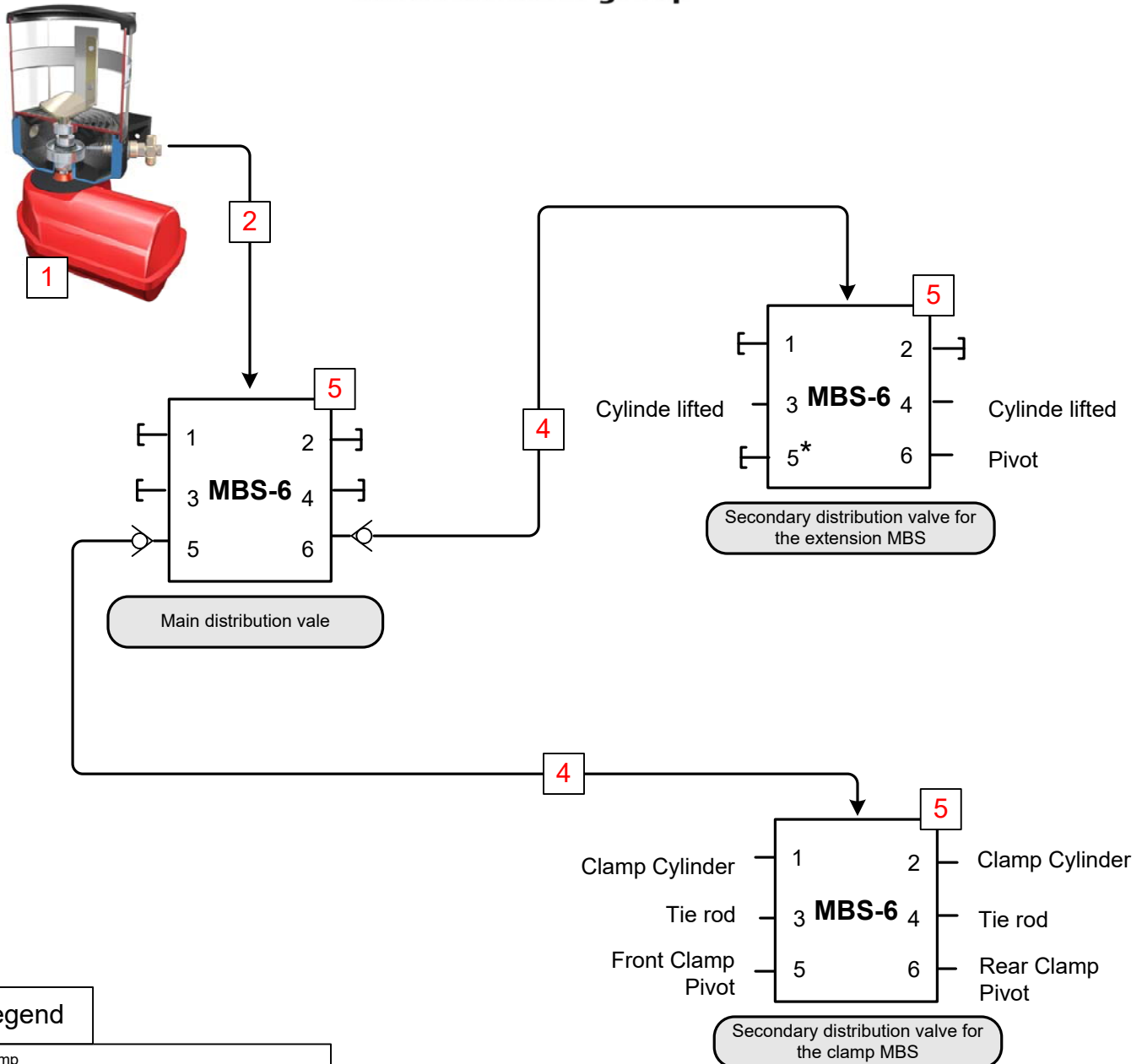
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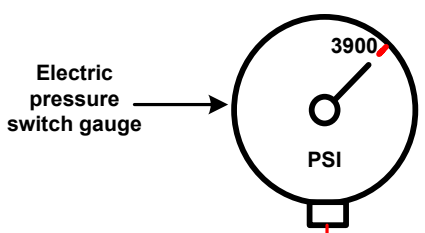
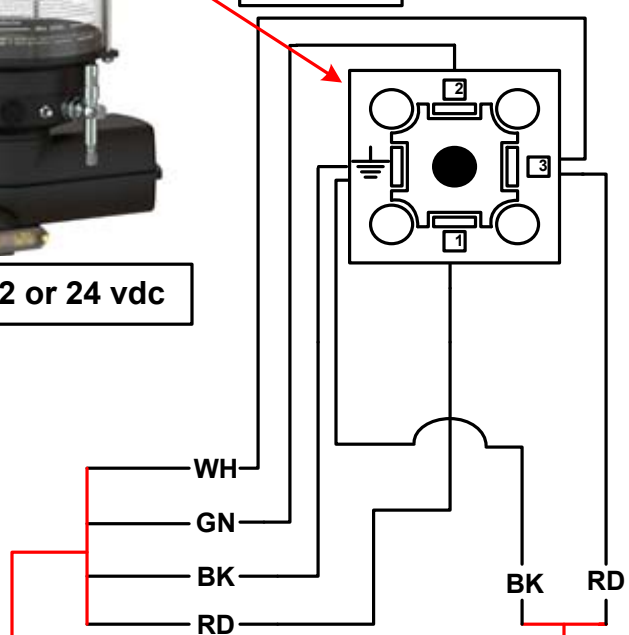
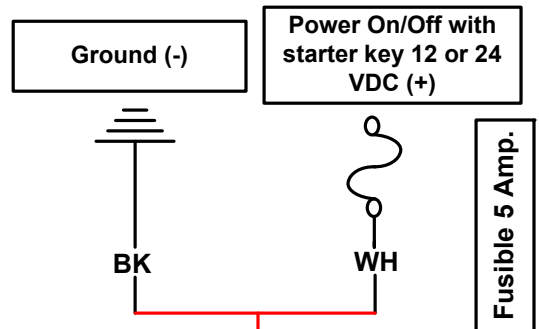


Make: Labrie	Drawing: Lubrication points	
Modal: 9 Points	Operationg code: 2 min / 120 min	
Serial number: N/D	Operating symbol:	
Installed by: Groupe Alltech	Done By: Saša Katić	2019-05-13
Client: Labrie Environmental	Revised by:	



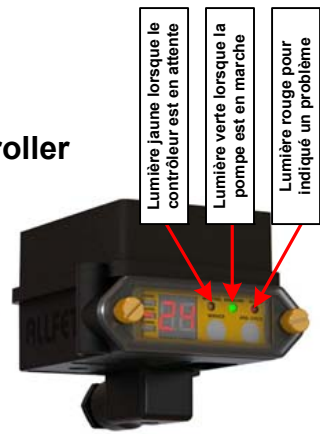
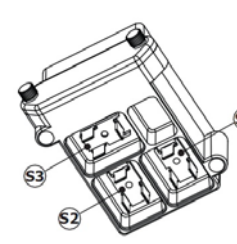
Motor 12 or 24 vdc

Low level



Electric pressure switch gauge

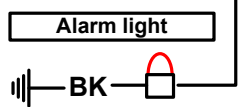
Integrated controller



Lumière jaune lorsque le contrôleur est en attente  
Lumière verte lorsque la pompe est en marche  
Lumière rouge pour indiqué un problème

- S1 – Electric standard and blocking connection
- S2 – Alarm light connection
- S3 – Low level connection

- WH — S1-1 = 12 or 24VDC (+)
- BK — S1-2 = Ground (-)
- GN — S2-2 = Alarm signal
- GN — S2-1 = Waiting
- GN — S3-1 = Low level signal
- RD — S3-2 = Low level (+)
- BK — S3-3 = Low level (-)
- WH — S1-3 = Blocking signal



Alarm light

Abreviation	Description
BK	Black
RD	Red
WH	White
GN	Green
BU	Blue
BR	Brown

Wire type		
#	Type	Fonction
#1	18-2	Power
#2	18-4	Low level
#3	18-2	Pump motor
#4	22-2	Electric pressure switch gauge



Electric plan 12 or 24 VDC	Drawing #	001
Low level indicator & Noshock electric pressure switch	Date:	2015-11-18
	Done by:	Rod

## **GLOSSARY**

**Centralized automatic lubrication system:**

Pump which feeds a great number of friction points with lubricant through a system made of tubes, electronic card or PLC and progressive valves.

**Connections and fittings:**

For the plastic and steel hoses, the connections hold the hoses in place. The fitting makes it possible to connect two hoses and/or parts which have different characteristics.

**Calibration:**

Amount of provided lubricant at a lubrication point metered by a progressive valve during a lubrication cycle.

**Consistence:**

See Penetration.

**Electric pressure switch indicator:**

An electronic switch is engaged by a device when a predetermined pressure is reached. Hydraulic information is thus converted into electric information.

**Electronic card:**

Electronic unit that controls and checks upon the system different functions, it also shows running state and problems when they occur.

**Filling gun:**

Filling tool with cartridge used to fill the reservoir through a filling nozzle.

**Filling nozzle:**

Coupling used to fill-up the pump of lubricant with a filling gun.

**Low level grease indicator:**

An electronic device (sensor) warns you when the lubricant level is low. (The grease level in the reservoir is lower than the tip of the sensor).

**Lubrication cycle:**

Period between the beginning of a lubrication cycle and the beginning of another.

**Lubrication period:**

Time needed by the pump to do a lubrication cycle, according to the electronic card.

**Lubrication point:**

Physical point where the force of friction applied is point effective.

**Main line:**

Tube connected between the pump and the main progressive valves.

**NLGI grade:**

See penetration.

**Non-return valve:**

A mechanical device allows the lubricant flow in a direction only, while blocking the flow in the opposite direction.

**Penetration:**

The consistency of a lubricant is indicated by a number. It represents the penetration depth of a cone in the grease measured at +25°C according to standards' NLGI. The index of consistency of the lubricants is based on ranks NLGI. (**N**ational **L**ubricating **G**rease **I**nstitute). Here are some of the popular values

NLGI grease: 000, 00, 0

NLGI grease: 1, 2, 3

**Pilot light:**

Light activated by an electronic sensor which verify the system condition.

**Progressive valve:**

A valve provides the metered lubricant to the lubrication point in a progressive order.

**Progressive system:**

A centralized lubrication system consisted of one or many progressive valve.

**Pulse counter:**

A system is monitoring the piston displacement in a progressive valve (when necessary). This allows monitoring the whole system.

**Pump:**

Manual or electrical device used to push lubricant using a pump element mounted on the said device.

**Standing period:**

Waiting period between two lubrication cycles pre-selected on the electronic card.

**Relief valve (safety valve):**

Device mounted on the pump element which limits the pressure in the system. The valve opens when the pre-selected pressure is exceeded.

**Secondary line:**

Tube connected between the progressive valves and the lubrications points.

## RECOMMENDED GREASE

After analyzing the **working** conditions of our automatic greasing system, here are the recommendations concerning the choice of the grease to use.

- Oil basis: Viscosity at 40°C between 100 and 220 CST
- Thickener: lithium or calcium sulfonate type
- Additive: Extreme Pressure
- NLGI grade: 1 and 2 *(for colder regions, use EP-1 grease from October to April and EP-2 grease from April to October.)*

### Non desirable elements:

- A high base oil viscosity will slow down the mobility of the product in cold weather.
- Certain thickener like barium, clays, etc.
- Solid additives like graphite, moly 5% and copper when the concentration exceeds 3 microns.

Here is a list of accepted greases for the **ALLFETT** systems.

- Esso Epic EP
- Esso Unirex EP
- Shell Gadus S2 V220
- Shell Gadus S3 V220
- Texaco Multifak EP
- Ultramar Ultra Lithium EP
- Prolab GS-1000
- Prolab AF-400
- Sinto 250 EP
- Texas Refinery 880
- Hipertech APG-0 & 1
- Hipertech SG-2
- Irving Lubex EP

ATTENTION! Mixing different types of grease may damage your system. That's why for all other non-listed greases, please confirm with your **ALLFETT** distributor if it is acceptable or not at the risk of a void warranty if you use non-accepted grease.

## GREASES COMPATIBILITY CHART

	Sulfonate	Lithium	Lithium Complex	Aluminium Complex	Calcium Complex	Barium	Sodium	Bentone	Silica Gel	Polyurea
Sulfonate		FC	FC	NC	FC	SC	NC	NC	SC	SC
Lithium	FC		FC	NC	FC	SC	NC	NC	FC	SC
Lithium Complex	FC	FC		NC	FC	SC	NC	NC	FC	SC
Aluminium Complex	NC	NC	NC		NC	NC	SC	NC	FC	NC
Calcium Complex	FC	FC	FC	NC		SC	NC	NC	NC	SC
Barium	SC	SC	SC	NC	SC		NC	NC	FC	NC
Sodium	NC	NC	NC	SC	NC	NC		NC	NC	NC
Bentone	NC	NC	NC	NC	NC	NC	NC		FC	NC
Silica Gel	SC	FC	FC	FC	NC	FC	NC	FC		NC
Polyurea	SC	SC	SC	NC	SC	NC	NC	NC	NC	

LEGEND :

**FC : FULLY COMPATIBLE**

**SC : SOMEWHAT COMPATIBLE - MIXTURE SOFTENS, BUT REMAINS GREASE LIKE**

**NC : NOT COMPATIBLE - MIXTURE SOFTENS SEVERELY AND DO NOT REMAIN GREASE LIKE**



## 2.3 Grease replacement procedures

### 2.3.1 Important precautions

When purging of the system is necessary, there are some precautionary measures that should be taken to minimize the risk of potential incompatibility reactions.

- First, make sure that the pump allows excess lubricant. If not, it's important to purge the maximum grease from the system.
- Verify that the equipment is operating properly and that there aren't any incompatible accessories, like a gasket for example, which could react when in contact with the new lubricant.
- Check that the lubricated equipment can accept full-fill lubrication. This procedure should not be applied to equipment designed to operate with limited grease quantities because excessive operating temperature may occur.

### 2.3.2 Procedures to bleed your system

- Clean the pump so there is no more of the old grease and, therefore, no possible chemical reactions.
- While the hoses are plugged, slowly pump in the new grease until the excess grease being purged from the system changes in consistency or color.
- Repeat the previous step for each distribution blocs and connected hoses. Each distribution bloc has a greasing nipple to help you.
- Temporarily increase the grease volume at least during the next two lubrications. The increased grease flow will help move out any remaining old grease and will provide sealing while overly soft grease may still be in the system.
- After one week, inspect the system to make sure there is no chemical reactivity.
- You must pay attention to any unusual change (power consumption, amperage draw, lubrication frequency, vibration, etc.).

### 2.3.3 Conclusion and additional information

For greases more than for oils, the measured characteristics are often vague and provide only fragmentary and insufficient indications to define the applications to the mechanisms. That's why test benches for greases were created, but only a full-scale test can provide manufacturers and users the true value about a type of grease. However, general indications are available to make it easier:

- The recommended viscosity for greases use for centralized lubrication system is between 100 to 200 cSt à 40°C.
- Sodium and calcium based grease has a good water resistance. They can be use until 120°C and at high speed revolution.
- Lithium based greases are the most commonly used. They represent approximately 70% of all commercialised grease. It has a dropping point at 175°C and can reach 195°C with lithium soap 12hydroxy stearic acid.
- Greases with calcium, aluminum or lithium based, with bentonite or cellulose structures, or with polyurea thickeners, can support high temperatures (165 à 230 °C).

## INSPECTION LIST FOR AUTOMATIC LUBRICATION SYSTEM

Equipment: \_\_\_\_\_ Serial number: \_\_\_\_\_ Unit: \_\_\_\_\_

### CONTROL CARD

- The control card is working normally
- The fuse is in good condition
- The lubrication cycle is working normally
- Electric connections are connected on the main switch
- The "additional cycle" button is working

Lubrication code: \_\_\_\_\_

Ok


### PUMP

- The bolts for the plate are tightened
- Electric connections are ok, the pump is receiving power
- The motor compartment is dry
- The reservoir is in good condition
- The mixing spoon is rotating clockwise at 15 RPM
- Lubricant level is full
- The low level warning light is off
- The defective lubrication system warning light is off
- The pressure switch open at 280 bars
- The pump element pressure is normal

Pressure: \_\_\_\_\_


### HOSE

- The hose between the pump and the main distribution valve is in good condition
- The hoses between the main distribution valve and all the secondary valves are in good condition
- The hoses between all the secondary distribution valves and the lubrication points are in good condition
- All nylon cable ties and hose clamps are in good condition
- Hoses have enough space (they won't be crushed when the machine is in movement)


### DISTRIBUTION VALVE

- Fittings and distribution valves don't leak
- All the distribution valves are working manually
- The distribution bolts are tightened


### GREASE TYPE

Grease used is conform to **ALLFETT** recommendations (Consult our recommended grease list)

Grade: \_\_\_\_\_ Viscosity: \_\_\_\_\_

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### **Other comments and/or observation**

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Date: \_\_\_\_\_

Signature: \_\_\_\_\_

## A. PROBLEMS SEEN ON THE PUMP

PROBLEMS	CAUSES	WHAT TO DO
Low level red light is on.	The reservoir is empty.	Fill the reservoir <sup>1</sup> .
	The control card fuse is burn.	Change the fuse.
	The pump wire is cut.	Replace or repair the wire <sup>2</sup> .
	There are air bubbles in the grease.	Fill the reservoir by the filling cover.
	The motor of the pump is defective.	Make sure the motor has power. If yes; motor is defective. Change it.
	Low level sensor is defective.	Repair or change <sup>3</sup> the low level sensor.
Defective red light is on and/or grease is released by the relief valve.	One hose is crushed.	Check all the hoses conditions. Replace.
	One lubrication point is jammed.	Disconnect the hose at the lubrication point, check and manually pump the point to unblock it <sup>4</sup> .
	One distribution valve is jammed (Cold temperature, grease too thick, contaminant in the grease).	Unbolt the distribution valve <sup>5</sup> and washed it with diesel. Make sure it is dry before re-assembled. Verify that your lubricant is recommended <sup>6</sup> .
The pump isn't working.	The system is in stand-by period.	Wait for the next lubrication cycle or press the « additional cycle » button to activate lubrication.
	There are defective electric connections.	Make sure that the connections aren't cut or disconnect. Repair or replace.
	The pump motor is defective or broken.	Make sure the motor has power. If yes; motor is defective. Change it.
No lubricant is released by the pump element.	The reservoir is empty.	Fill the reservoir. An empty pump may require a bleeding <sup>7</sup> in order to remove the air.
	There is air in the pump element.	Bleed <sup>8</sup> your system.
	The pump element generates no pressure.	Change the pump element <sup>9</sup> .
Grease is leaking by the pump body and/or between reservoir modular glasses.	O-rings between the reservoir modular glasses are defective or the rods (4) of the pump aren't tightened.	Change the o-ring or tight the bolts (4) of the pump.

<sup>1</sup> To know how to fill the reservoir, consult the section 2 of this manual.

<sup>2</sup> To view the electric schematic, consult the section 1 of this manual.

<sup>3</sup> To know how to change the low level sensor, consult the section 5 of this manual.

<sup>4</sup> To know how to find a blocked lubrication point, consult the second 5 of this manual.

<sup>5</sup> To know how to assemble a distribution valve, consult the section 5 of this manual.

<sup>6</sup> For more information about the recommended greases, consult the section 2 of this manual.

<sup>7</sup> To know how to bleed your system, consult the section 2 of this manual.

<sup>8</sup> Idem 7.

<sup>9</sup> To know how to change a pump element, consult the section 5 of this manual.

## B. PROBLEMS SEEN ON THE DISTRIBUTION VALVE / LUBRICATION POINT



PROBLEMS	CAUSES	WHAT TO DO
No lubricant is administered from the distribution valve.	One hose is crushed.	Check all the hoses conditions. Repair.
	One lubrication point is jammed.	Disconnect the hose at the lubrication point, check and manually pump the point to unblock it <sup>10</sup> .
	One distribution valve is jammed (Cold temperature, grease too thick, contaminant in the grease).	Unbolt the distribution valve <sup>11</sup> and washed it with diesel. Make sure it is dry before re-assembled. Verify that your lubricant is recommended <sup>12</sup> .
	The lubrication valve isn't correctly assembled.	Reassemble <sup>13</sup> the distribution valve to comply with <b>ALLFETT</b> standard. Contact your distributor for more information.
ALL the lubrication points are dry.	The pump element generates no pressure.	Change the pump element <sup>14</sup> .
	The lubricant used isn't recommended for your system or for the season (temperature).	Bleed <sup>15</sup> your system and replace your grease by an approved one <sup>16</sup> .
	Lubrication cycle isn't adjusted to the equipment needs or customers expectations.	Adjust the lubrication code <sup>17</sup> of your control card. Contact your distributor to get a recommended cycle.
There is too much/not enough lubricant at ONE lubrication point.	The calibration isn't adjusted to the equipment needs or customers expectations.	Contact your distributor for a recalibration.
Lubricant is released between sections.	One lubrication point or a distribution valve is jammed.	Disconnect the hose at the lubrication point. Manually pump the lubrication point and the distribution valve to unblock it <sup>18</sup> .
	O-rings or Teflon gaskets between sections are defective.	Unbolt the distribution valve <sup>19</sup> and replace the defective o-rings or Teflon gaskets.
	The lubrication valve isn't correctly assembled.	Reassemble <sup>20</sup> the distribution valve to comply with <b>ALLFETT</b> standard. Contact your distributor for more information.

<sup>10</sup> Idem 6.

<sup>11</sup> Idem 4.

<sup>12</sup> Idem 5.

<sup>13</sup> Idem 4.

<sup>14</sup> Idem 9.

<sup>15</sup> Idem 7.

<sup>16</sup> Idem 1.

<sup>17</sup> To know how to program your control card, consult the section 5 of this manual.

<sup>18</sup> Idem 6.

<sup>19</sup> Idem 4.

<sup>20</sup> Idem 4.

## C. PROBLEMS SEEN ON THE CONTROL CARD



PROBLEMS	CAUSES	WHAT TO DO
Red light is on.	The fuse is burned.	Change the fuse.
	The motor electric connections and/or wires are cut or unplugged.	Check all the electric wirings and repair those defective <sup>21</sup> .
	The low level sensor is defective.	Temporarily disconnect it to make the system work until you change the sensor. Change the low level sensor <sup>22</sup> .
	The motor of the pump is defective.	Make sure the motor has power. If yes; motor is defective. Change it.
There is no power on the control card.	The power and ground wires are cut or unplugged.	Check all the electric wirings and repair those defective.
	The main power fuse is burned.	Change the fuse.
There is power in the output of the control card but no lights are on.	There is radio frequency interference.	Make sure there is a RF (Radio Frequency) choke near the control card. If not, install a RF (Radio Frequency) choke <sup>23</sup> . If yes, contact your distributor.

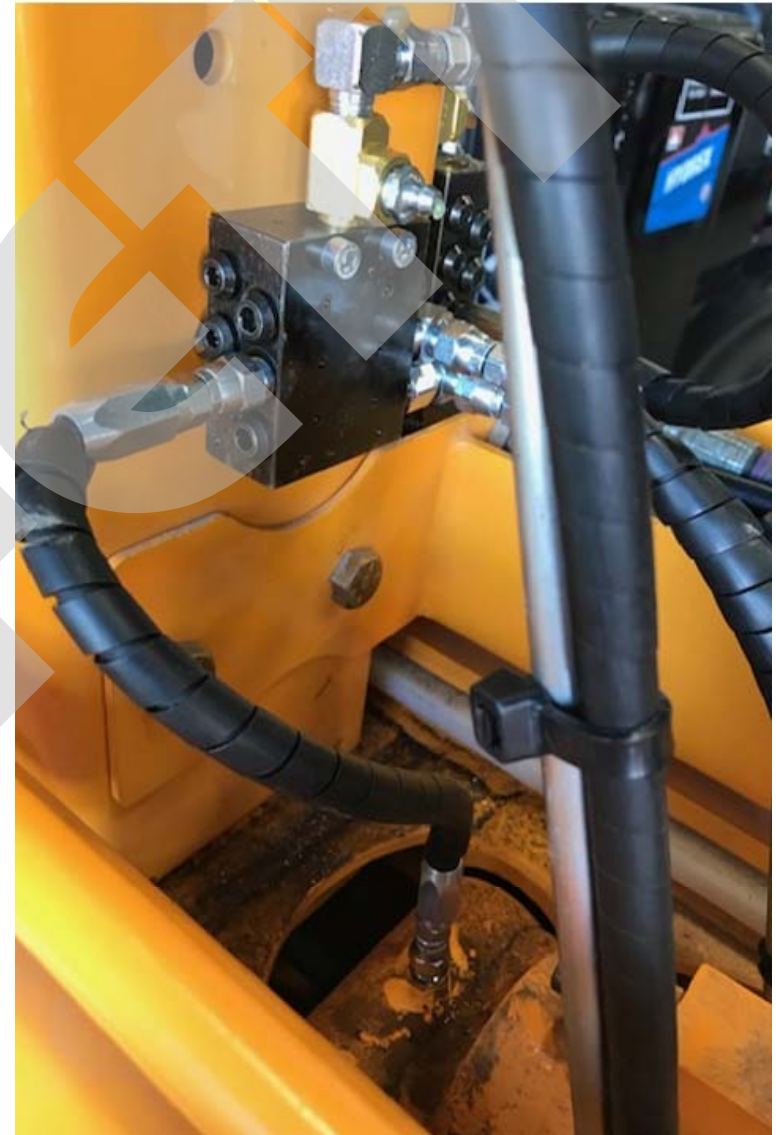
<sup>21</sup> Idem 3

<sup>22</sup> Idem 2

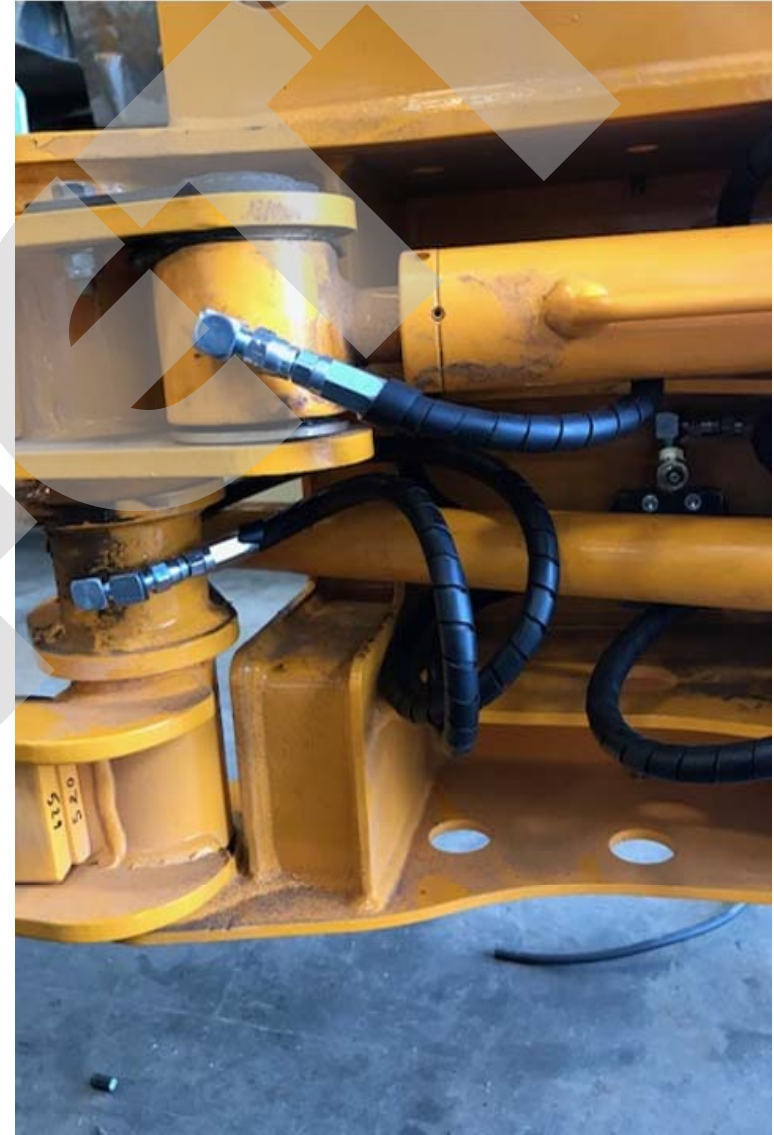
<sup>23</sup> To know how to install a RF choke, consult the section 5 of this manual.





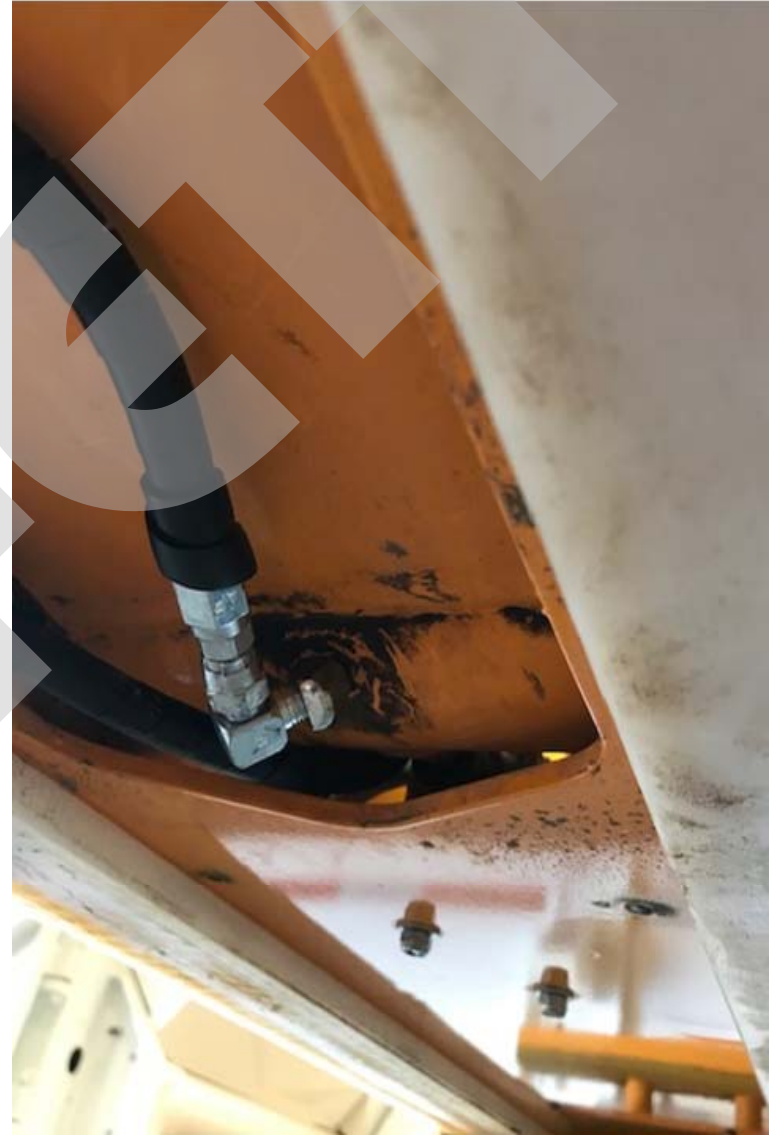
















**ALL-1EC NAD ALL-10EC PUMP**  
**INTEGRATED CONTROL CARD**  
**12-24 V / DC**

**USER GUIDE**



**ALLTECH GROUP – AUTHORIZED SUPPLIER OF ALLFETT PRODUCT'S**

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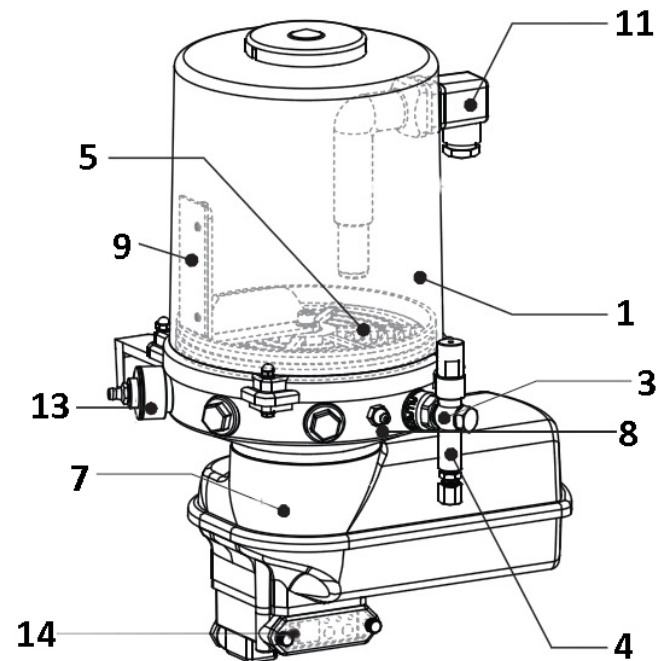
## WORKING PRINCIPAL

The ALL-1 and ALL-10 pumps are powered by an electric motor with an eccentric cam. Their working principles are the same. At each motor rotation, the spring of the pump element (s) is (are) compressed in order to obtain the required pressure. At the same time, inside the reservoir the mixing spoon is activated to mix and push the grease downward. This prevents grease separation and softens it when cold temperatures occur. The body of the pump is designed to receive up to six (6) pump elements. This allows you to adjust it to supply the right amount of lubricant to each point. The pump must be fed by a suitable energy source with the correct voltage.

The installation of an automatic lubrication system assures a continuous lubrication at fixed intervals to all greasing points, especially those hard to reach. The system is active while the equipment is in operation and all the points are in movement. The ALL-1 pump is recommended for medium to large size machinery that requires a regular amount of grease. The ALL-10 pump is recommended for large size machinery that requires a large amount of grease.

## PUMP COMPONENT

1. Reservoir :  
Container made of transparent polycarbonate intended to receive the lubricant. Since January 2010, the reservoirs are only available in monoblock version. Four sizes are available; 1.4L, 3.3L, 6L and 14L.
2. Cover (optional):  
Waterproof plastic plug installed on the top of the reservoir. It prevents grease contamination. An adaptor can be added to facilitate grease filling (option not shown on picture).
3. Pump element :  
Main part of the system installed on the pump body. It transfer grease from the pump to the distribution valves.
4. Relief valve:  
Mechanical device installed on the pump element. It prevents pressure excess by limiting it at 290 bars. The valve opens if pressure is exceeded.
5. Filter :  
Perforated porous plastic which block air before it reach the pump element.
6. Eccentric cam:  
Bearing which activate the pump element at each pump rotation.



7. Motor :  
Powered by a 12 or 24 volts electric source, the motor activate the system. The motor casing is made of plastic.
8. Pump body :  
Light pump structure made of aluminium.

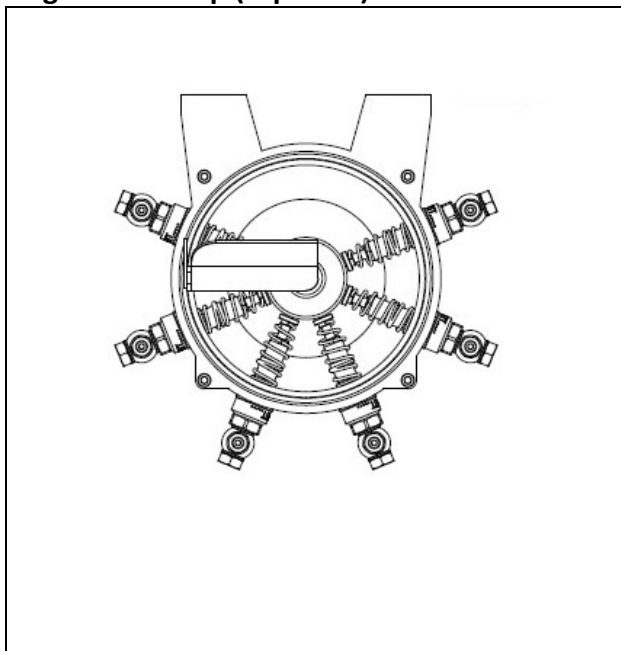
9. Mixing spoon :  
Interne spatula intended to mix and push the grease downward. This prevents grease separation and softens it when cold temperatures occur.
10. Electric pressure switch :  
Sensor installed on the security valve that sends a signal to the operator when excessive pressure is detected (more than 270 bars).
11. Low level grease indicator (optional):  
A probe installed in the pump reservoir that sends a signal to the operator when the grease level is low.
12. Filling nozzle (optional) :  
Permanently installed on the pump, the filling nozzle is used with the grease filling gun to fill the pump reservoir.
13. Quick coupler for pump filling (optional) :  
Permanently installed on the pump it is used with an electric transfer pump to fill the pump reservoir.
14. Integrated control card :  
It is used to operate and monitor the **ALLFETT** system by managing the working and stand-by periods. It allows you to visualize these errors (blocking, low level, fuses, motor) on the LCD screen.

## **TECHNICAL SPECIFICATIONS**

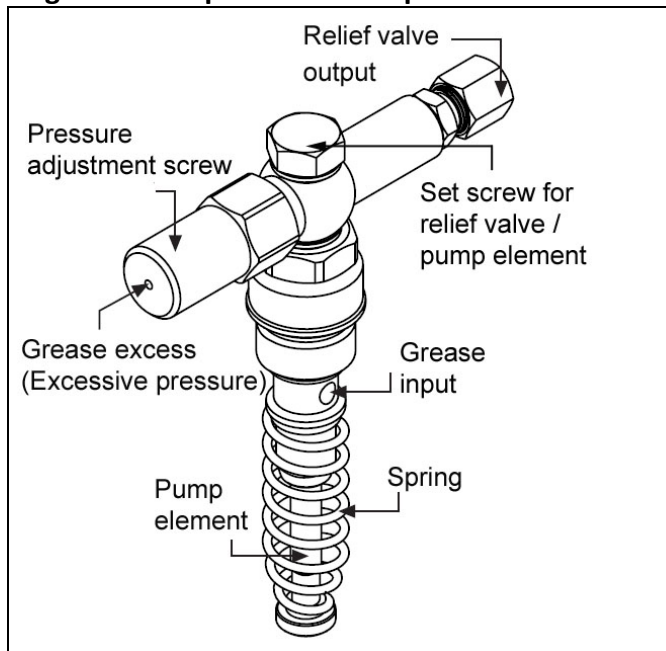
CARACTERISTICS	ALL-1EC mini	ALL-1EC	ALL-10EC
Power source	12 or 24 VDC		
Maximum pressure	300 bars		
Protection class	IP54		
Recommended lubricant	Grease NLGI 0-1-2 <sup>1</sup>		
Pump element	1 to 6		
Pump element capacity	2.5 – 3 cm <sup>3</sup> /min.		
Working temperature	-25°C to +80°C		
Reservoir capacity (litre)	1,5	3,3	6

<sup>1</sup> Consult section 2 of this manual for more information about recommended greases.

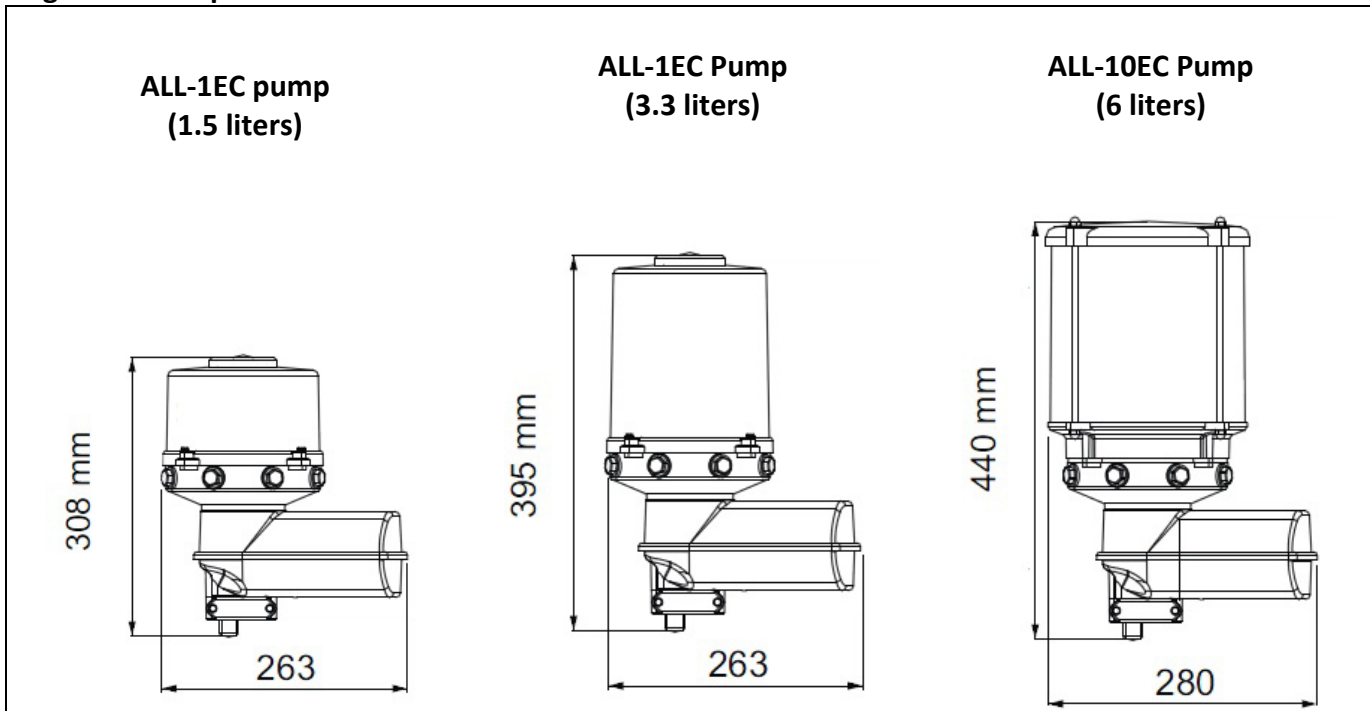
**Figure 1 : Pump (top view)**



**Figure 2: Pump element and pressure switch**



**Figure 3 : Pump size**





## COMPONENTS MODIFICATIONS

### SAFETY MESURES

- Keep your working area clean.
- Always wear gloves when you work with lubricant.
- Make sure that the electric source is disconnected when you work with electric components.

#### 1. REPLACEMENT OF A PUMP ELEMENT

- Remove the old pump element (make sure that the spring and the rod are not stuck inside).
- Make sure that the new pump element is clean (inside and outside).
- Insert it inside the body of the pump; the mixing spoon must be in front of the pump element output.
- Once inserted, tighten the pump element with a wrench until it sits on the pump body. **WARNING**, do not over tighten the pump element because it could crack the pump body.

#### 2. REPLACEMENT OF A RELIEF VALVE

The security valve is adjusted beforehand by a certified **ALLFETT** technician. It must be adjusted to 290 bars.

- Remove the old relief valve.
- On the new valve, install a sealing metal washer on the relief set screw.
- Insert the set screw in the relief valve.
- Once done, install a second sealing metal washer. This washer will sit on the pump element head.
- Screw the relief valve with a wrench until it sits on the pump element head. **WARNING**, do not over tighten the relief because it could crack the pump body. **NOTE**: If there is grease leaking, gradually tighten the relief set screw.

#### 3. REPLACEMENT OF THE COVER (REGULAR OR FILLING COVER)

- Unscrew the four pump rods to gain access to the cover.
- Remove the cover and replace it by the new one.
- Once in place, reinstall the four pump rods. **WARNING**, do not over tighten the rods because it could crack the pump body.

#### 4. REPLACEMENT OF A RESERVOIR MODULAR GLASS

- Unscrew the four pump rods to gain access to the modular glass (es).
- Once the cover is removed, bleed the pump until the damage modular glass isn't submerge in grease anymore.
- Remove the modular glass.
- When replaced, if there are modular glasses, it's important to verify that the o-ring is placed correctly in order to prevent leaking between modular glasses.
- Once in place, put back the reservoir modular glass (es), the cover and the four pump rods. **WARNING**, do not over tighten the rods because it could crack the pump body.

## 5. REPLACEMENT OF THE A LOW LEVEL SENSOR (OPTIONAL)

- Disconnect the low level sensor connector by removing the screw.
- Unscrew the four pumps rods to gain access to the modular glass (es).
- Once the cover is removed, bleed the pump until the low level sensor isn't submerge in grease anymore.
- Remove the low level sensor modular glass.
- When replaced, if there are modular glasses, it's important to verify that the o-ring is placed correctly in order to prevent leaking between modular glasses.
- Once in place, put back the reservoir modular glass (es), the cover and the four pump rods. **WARNING**, do not over tighten the rods because it could crack the pump body.
- Reconnect the low level sensor connector with the help of the central screw.

## 6. REPLACEMENT OF A PRESSURE SWITCH (OPTIONAL)

- Remove the old pressure switch.
- Verify that the new pressure switch and the fittings are clean.
- Screw the new pressure switch. Do not forget to cover the threads in nylon in order to prevent leaking.
- Follow the electric scheme provided in the service manual (section 1) to complete the wiring.

## 7. REPLACEMENT OF A FILLING ADAPTOR (FILLING NOZZLE/QUICK COUPLE)

- Remove the old adaptor.
- Verify that the new adaptor is clean before installing it (inside/outside).
- Insert the adaptor in the pump body.
- Once inserted, tighten the adaptor with a wrench until it sits on the pump body. **WARNING**, do not over tighten the adaptor because it could crack the pump body.

## **MAINTENANCE**

**DIRT IS A KILLER – KEEP YOUR SYSTEM CLEAN!!!**

### **1. FILLING THE PUMP**

- Fill the pump reservoir with the filler gun (if the pump has this option).
- Fill the reservoir through the high pressure grease nipple.
- Fill the pump by the screw-on type cover (if the pump has this option).

IMPORTANT: Before filling the reservoir, make sure all the adaptors are clean to avoid contamination of the grease.

A pump which was emptied may require a bleeding in order to remove air.

### **2. BLEED A SYSTEM**

Please consult the second section of the manual to know how to bleed your system.

### **3. RECOMMENDED GREASES**

For more information about recommended greases, please consult the second section of the manual.





## EC CONTROL CARD

## USER GUIDE



**ALLTECH GROUP – AUTHORIZED SUPPLIER OF ALLFETT PRODUCT'S**

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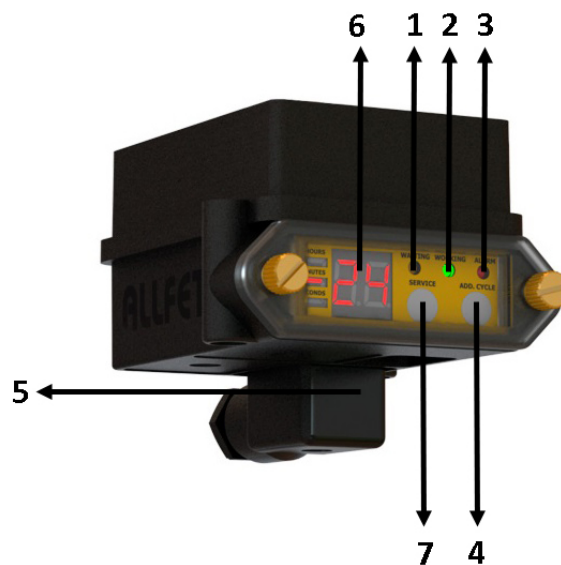
## WORKING PRINCIPLE

The electronic control card is an essential element of a centralized lubrication system. It is used to operate and monitor the **ALLFETT** system by managing the working and stand-by periods. This allows you to adjust it to supply the right amount of lubricant to each point. The working and stand-by periods can be easily adjusted.

The EC Control card is working with a 10-30 VDC power source. It is connected on the power of the equipment, so it works only when the equipment is running. In case of a power breakdown, the electric card will remain at its previous programmed position. Also, it warns you if a problem or malfunction occurs in your system to prevent costly reparation on the equipment. It is possible to visualize these errors (blocking, low level, fuses, motor) on the LCD screen. The electronic card is protected to prevent tampering or re-programming attempts via a password.

## CONTROL CARD COMPONENT

1. Control card light indicator:  
The yellow light is on when the system is on stand-by.
2. Pump light indicator :  
The green light is on when the lubrication cycle is in progress; the pump is turning.
3. Warning light indicator :  
The red light is on when the system is defective.
4. « Additional cycle » button:  
Button used to activate the lubrication cycle when the system is in stand-by.
5. The card connections :  
Electrical connections of the card.
6. LCD screen:  
Permits to visualize the cards information (greasing time, stop time, problems etc.).
7. Service button:  
Button which serves to do the programming.



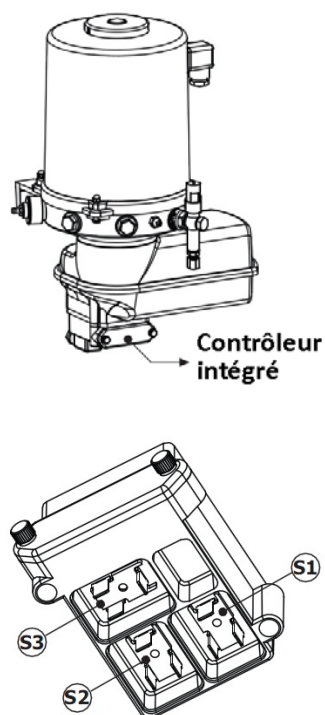
8. Fuse (internal):  
Internal electrical component on the control card. It protects against overcurrent.
9. Radio frequency choke  
Radio frequency choke (Snap-On Ferrite 43) installed near the control card to prevent radio interference.

## TECHNICAL SPECIFICATIONS

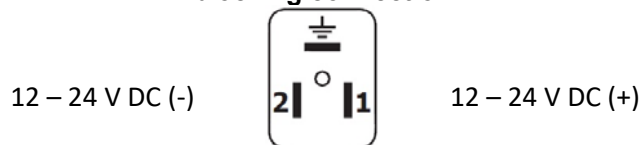
Voltage	10-30V
Amperage	4A
Monitored control	Timer
Working period	Between 1 second et 60 minutes
Stand-by period	Between 1 second et 100 hours
Language	English or Turk

## CARD CONNECTIONS

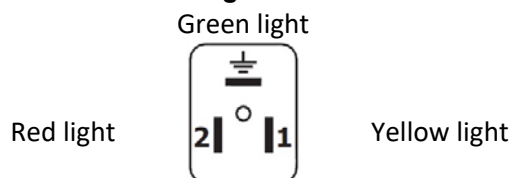
The electrical connections are located under the controller box as shown below.



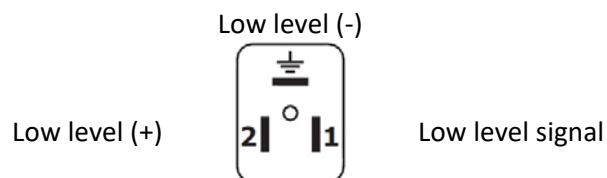
### S1 – Electric standard and blocking connection




### S2 - Alarm light connection



### S3 – Low level connection







**WARNING!** The connection of the «ground» (  ) in the S1 socket provides the pressure sensor signal during the operation. During the shutdown period, the same connection gives the ADDITIONAL CYCLE signal.

## DEFINITION AND INFORMATION

Green light on: The values displayed on the screen are relative to the working period.

## ALARM CODE

	<b>A1 : Low level alarm :</b> Displayed when the reservoir is empty.
	<b>A2: Pressure alarm :</b> Displayed if the adjusted pressure is reached.
	<b>A3: Motor alarm :</b> Displayed if the motor connecting cable or just the engine is defective.
	<b>A4: Fuse alarm :</b> Displayed if the fuse is defective.



## **COMPONENTS MODIFICATION**

### **SAFETY MESURES**

- Keep your working area clean.
- Always wear gloves when you work with lubricant.
- Make sure that the electric source is disconnected when you work with electric components.

### **1. PROGRAM YOUR CARD**

To perform a programming change, use the buttons "SERVICE" and "CYCLE ADDITIONAL".

- Press on the service button twice to access the programming mode. Once in programming mode, the first digit on the display and the green light will flash. The working time will first be defined.
- Press the "ADDITIONAL CYCLE" button to change the flashing digit. Press the button "ADDITIONAL CYCLE" again until the selected time is displayed. Press the "SERVICE" button to save.
- After recording the first digit, the second digit will start flashing. Press the "ADDITIONAL CYCLE" button to change the flashing digit. Press the button "ADDITIONAL CYCLE" again until the selected time is displayed. Press the "SERVICE" button to save.
- After recording the second number, the time unit will start flashing. Press the button "ADDITIONAL CYCLE" to change the time unit. Press the button "ADDITIONAL CYCLE" again until the unit chosen is the right one. Press the "SERVICE" button to save.

The working time is now registered and programmed.

- Following the registration of the time unit, the first number on the screen and the yellow light will flash. The waiting time can now be set.
- Press the "ADDITIONAL CYCLE" button to change the flashing digit. Press the button "ADDITIONAL CYCLE" again until the selected time is displayed. Press the "SERVICE" button to save.
- After recording the first digit, the second digit will start flashing. Press the "ADDITIONAL CYCLE" button to change the flashing digit. Press the button "ADDITIONAL CYCLE" again until the selected time is displayed. Press the "SERVICE" button to save.
- After recording the second number, the time unit will start flashing. Press the button "ADDITIONAL CYCLE" to change the time unit. Press the button "ADDITIONAL CYCLE" again until the unit chosen is the right one. Press the "SERVICE" button to save.

The waiting time is now registered and programmed.

The programming of the EC control card is now complete. The control card will activate the pump, starting with the waiting time.

### **2. ACTIVATE AN ADDITIONAL CYCLE**

- Press the « additional cycle » button and the selected cycle will be activated.

### **3. REPLACE THE FUSE**

- Remove the defective fuse and replace it by a new one.
- Press the « additional cycle » button to make sure that your change is successful.

#### 4. INSTALL A RF (RADIO FREQUENCY) CHOKE

- Make sure to put the RF choke as near as you can of the control card.
- Pass each wire twice (double loop) around the RF choke.
- Make sure the RF choke is closed.
- Install the control card as far as you can of the radio frequency system.

#### 5. To repair an error on the control card (blocking, low level, etc.)

- Perform the necessary repairs according to the error displayed;
  - Change the low level sensor, blocking sensor, fuses or motor.
- Press on the « additional cycle » button to reset the card in function.

### **MAINTENANCE**

Keep the control card in a dry environment.



**PROGRESSIVE MONOBLOC MBS**  
**DISTRIBUTION VALVES**

**USER GUIDE**



**ALLTECH GROUP – AUTHORIZED SUPPLIER OF ALLFETT PRODUCT'S**

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## DESCRIPTION

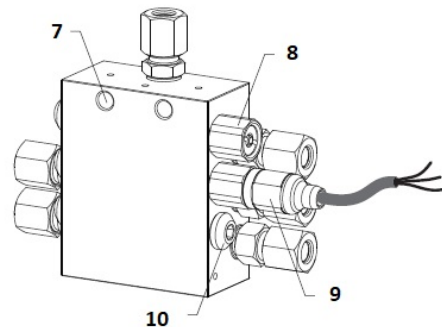
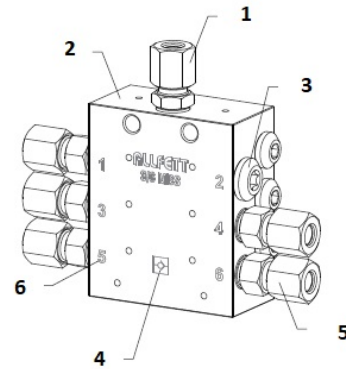
The progressive distribution valve administers grease to all other valves and/or lubrication points of the system. This distributor type is designed in monobloc structure with smaller size. Distributor block has a unique pilot control system divides the amount of grease coming from the pump equally between all lubrication lines on equipment.

Distributor block can be fed directly from pump or another progressive distributor connected to pump outlet. Specially designed outlet couplings should be used with monobloc type progressive distributors. This coupling helps any distributor outlet to be blocked.

The progressive distribution valves MBS have a manual greasing nipple that allows you to manually grease the system. It's also allowing you to test the valves in case of system failure.

## DISTRIBUTION VALVE COMPONENT

1. M10x1 Straight coupling  
Location by which the grease enters the distribution valve. Normally supplied with a Square T + grease nipple that serves as manual greasing point used in case of system failure. (not shown in the picture)
2. Distributor body :  
One-piece distribution valve: 6-8-10-12-14-16-18-20 outlets.
3. Locking screw (plug):  
Stopper inserted in a central element output to block it. By blocking an outlet, the next outlet receive double amount of grease.
4. Cross-Port marking
5. M10x1 monobloc type outlet coupling  
(Standard or check valve type):  
Mechanical device that allows lubricant flow in one direction only and blocks the other direction. Standard fittings are used on the outlets that lead to grease points. Check valves are used on all outlets lead to another monobloc distribution valve.
6. Outlet marking



7. Assembly holes  
Facilitates the attachment of the distributor.
8. Visual indicator (Optional)
9. Digital indicator (NpN or PnP) (Optional)
10. Piston screws

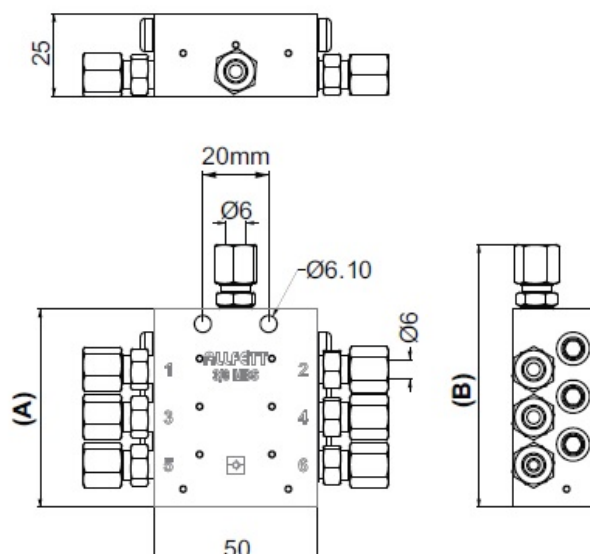
## TECHNICAL SPECIFICATIONS

Operating pressure	Max : 400 Bars Min : 6 Bars
Maximum hose length	Main line: 5 m. Secondary line : 2 m.
Recommended lubricant	Grease NLGI 0-1-2 <sup>1</sup>
Working temperature	-40°C to +80°C
Dosage available	Ø6mm - 0.113cc

Distance between distributor block and lubrication points must be 2m long. If necessary, check valve must be used on distributor outlets for distance between 2m and 5m.

## DIMENSION (mm)

FIGURE - 1



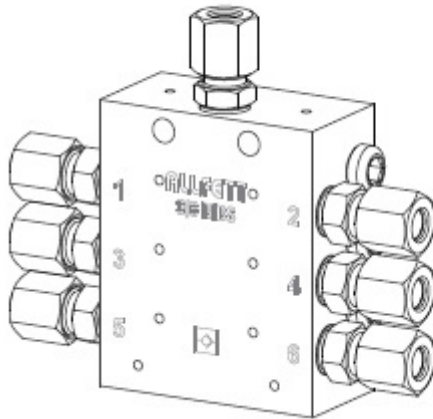
	(A)	(B)
6 outlets	60	80
8 outlets	74.5	94.5
10 outlets	89	109
12 outlets	103.5	123.5
14 outlets	118	138
16 outlets	132.5	152.5
18 outlets	147	167
20 outlets	161.5	181.5

<sup>1</sup>For more information concerning recommended grease, consult the section 2 of this manual.

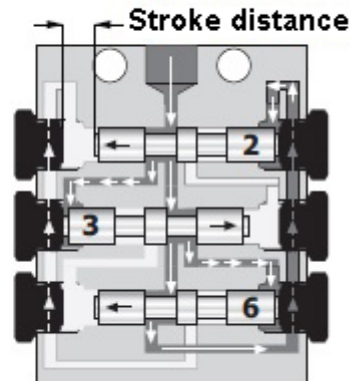
## **WORKING PRINCIPLE**

When electrical grease pump started to operate by electronic control unit; Pilot pistons inside distributor block are moved by grease delivered from pump. Lubrication point connected to an outlet is lubricated when a piston moves up to a stroke distance. At the same time, this movement of piston lets grease to next piston to be moved. This movement of pistons repeated in sequence as long as pump operates and depends of the distributor outlet counts.

**Distributor outlets**



**Pilot pistons**



Distributor block mainly used by connecting directly to a pump element outlet. When necessary, distributor block can be connected to another distributor outlet. By this way, dosage differences needed for lubrication points can be provided.

If any lubrication point is blocked and can't get any grease, pilot piston connected to this outlet stops and blocks grease to move next piston. After this blockage, grease exits from pump elements security valve. It can be seen that single or more lubrication points are blocked.

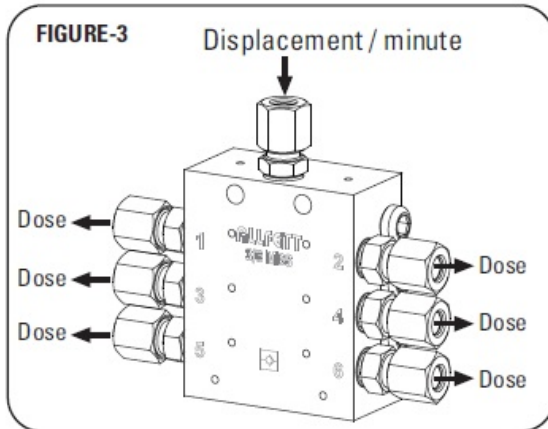
Lubrication system operation can be monitored by visual or digital indicators connected to distributor block.

### **ATTENTION!**

**Special type outlet couplings must be used with monobloc distributors. Locking an outlet for getting more dosage from another outlet can only be done by using this type of couplings.**

## DOSE ADJUSTMENT INFORMATION

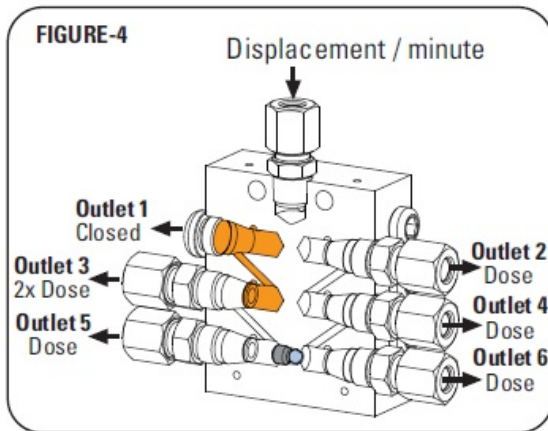
Monobloc distributors divide the grease delivered from pump with equal dosages. One or more outlets can be closed to get more grease from next bottom outlet. The method which is named blinding is described in following segments. Please follow the steps which is appropriate for your needs. Blinding is explained on 6 outlet distributor. Method can be applied on a distributor with more outlets.



### STANDARD DOSAGE

As shown on FIGURE-3, all outlets of a single distributor block divide the grease delivered from pump with equal dosages.

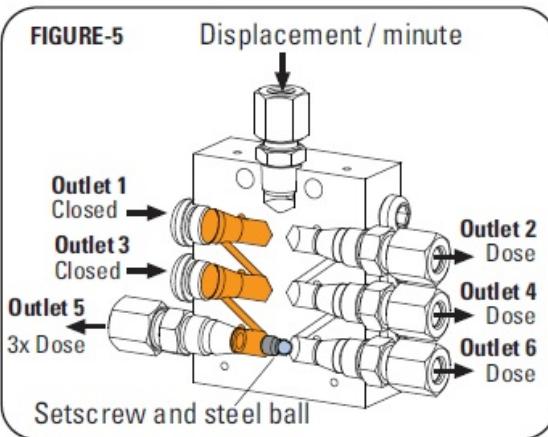
Standard dosage amount of a piston is 0.113cc per stroke.



### DOSE AMOUNT WHEN SINGLE OUTLET IS CLOSED.

If single outlet is closed with locking screw, grease amount of blinded outlet will be added to next bottom outlet. As shown in FIGURE-4, amount of grease sent on outlet 3 is doubled.

Any of the outlets where left or right side of the distributor block can be used for blinding.



### DOSE AMOUNT WHEN MULTIPLE OUTLETS ARE CLOSED

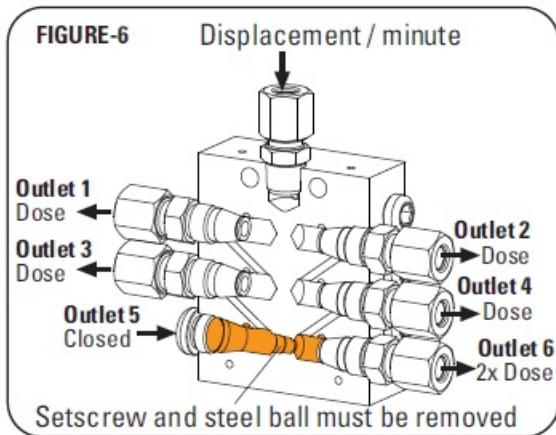
If multiple outlets are closed at single side of a block, grease amount of closed outlets will be added to next bottom outlet which is not closed. As shown on FIGURE-5, grease amount from outlet 1 and 3 is added to outlet 5.

Any amount of outlets can be closed on a single side of distributor block.

### ATTENTION!

There is a steel ball and set screw (Figure-5) inside undermost outlets. This steel ball and setscrew must be removed if blinding needs to be done across these outlets.





## CLOSING ONLY UNDERMOST OUTLETS

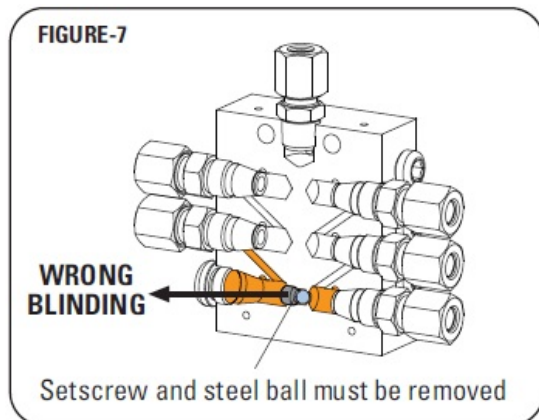
If one of the undermost outlets will be closed, setscrew and steel ball (Figure- 5) inside outlet must be removed. This way grease can cross to other side of distributor block.

Only undermost outlets can let grease to cross side by side (Figure-6)

## ATTENTION!

Pistons inside monobloc type distributors are produced in standard diameter (0.113). These pistons can be specially produced at different diameters for dose adjustment at different rates. Please contact us for optional producing possibility.

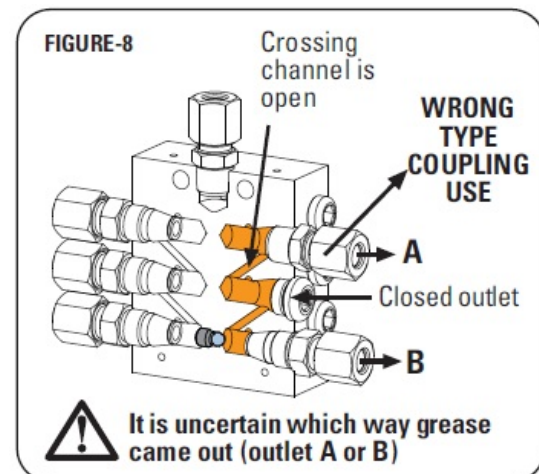
## WRONG WAY TO CLOSING OUTLETS



## WRONG BLINDING

Setscrew and steel ball must be removed when undermost outlets blinding. If not, distributor block stalled and don't send grease to lubrication points.

When this happens, grease comes out from security valve of pump element which is connected to distributor.



## USING WRONG TYPE COUPLING

Special outlet coupling must be used on monobloc type distributor. This coupling helps for blinding outlets. For this reason using any other type of coupling cause fault.

When a different type coupling is used, crossing channels will not completely be closed (as shown in the FIGURE-8), so grease will choose a path that it finds easy.

**ATTENTION!** As shown on FIGURE-8, middle outlet on right side is closed and wrong type coupling is placed on upper outlet. Only one outlet is closed on right side of distributor However, it is not possible to determine from which outlet grease will come out. Distributor continues to operate but one of the lubrication points can't be lubricated.



## COMPONENT MODIFICATION

### SAFETY MESURE

- Keep your working area clean.
- Always wear gloves when you work with grease.
- Make sure that the electric source is disconnected when you work with electric components.

#### 1. CONNECT A HIGH PRESSURE HOSE

- Cut the hose with a 90 degrees angle.
- Screw the socket counter clockwise. Once done, make a circle with the hose or turn it up around your hand in order to prevent it to twist. Screw the hose with a 12mm wrench until it is tightened (the socket must sits on the hose).
- Fix the socket with a 12mm wrench and screw in the adaptor clockwise with a 10mm wrench. Make sure that the adaptor and the socket are tightened.
- **To connect in a distribution valve:** First, install the cap screw on the adaptor and then the DOUBLE side ring. Insert the adaptor in the distribution valve until your reach the bottom of the central element output. Screw it. End with an additional turn, do not over tighten.
- **To connect in a fitting:** Connect the adaptor in the fitting (the fitting includes a SINGLE side ring and a nut). End with an additional turn, do not over tighten.

#### 2. CONNECT A POLYAMIDE HOSE

- Cut the hose with a 90 degrees angle.
- **To connect in a distribution valve:** First, install the cap screw on the hose and then the DOUBLE side ring. Insert the hose in the distribution valve until your reach the bottom of the central element output. Screw it. End with an additional turn, do not over tighten.
- **To connect in a fitting:** Connect the hose in the fitting (the fitting includes a SINGLE side ring and a nut). End with an additional turn, do not over tighten.

## **MAINTENANCE**

NOTE: During the original installation, the distribution valves are covered with a “protective liquid” that prevent corrosion.

### **1. IDENTIFICATION OF A BLOCKED POINT/DISTRIBUTION VALVE**

- Make sure that the agitator is submerged by the lubricant inside the pump reservoir.
- Remove the hose on the main distribution valve (hose between the pump and the main valve). Press the “additional cycle” button on the control card to start the system. Verify that the lubricant is released by the hose removed. If yes, go to the next step. If not, check the hose, it could be jammed or crushed.
- Remove the hose on the main distribution valve. Manually pump the distribution valve with a filling gun. If it's hard to pump, remove a secondary hose. Pump again. If it's still hard to pump, remove another secondary hose (leave the first hose removed). Pump a third time. Repeat those steps for each hose.
- Diagnostic :
  - If, after all the hoses are removed, it's still hard to pump, the distribution valve is blocked. Dissembled it and wash it with diesel.
  - If, at one time, it becomes easy to pump, it means that the point linked is blocked (verify hose condition). If the hose goes to another distribution valve, repeat previous steps.



# ALLFETT®

## PARTS LIST & ACCESSORIES

Updated: September 2019



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# PROGRESSIVE LUBRICATION SYSTEM

## Parts list



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Tee	33
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The **ALLFETT** progressive lubrication system offers a maximal performance and flexibility. It is a versatile system thus very easily personalized. There modular system and the multiple choices of pumps offer a variety of configurations which adapt to all applications;

Off road  
On road  
Mining

Harbour  
Agriculture  
Industrial

Forestry  
Airport  
Paving.

The Alltech Group proposes centralized lubrication system to keep an eye on your investment in **reducing maintenance costs** on your fleet, by **increasing the lifespan of parts** along with **permitting to save on time, lubricant and considerable maintenance costs**.

## Advantages

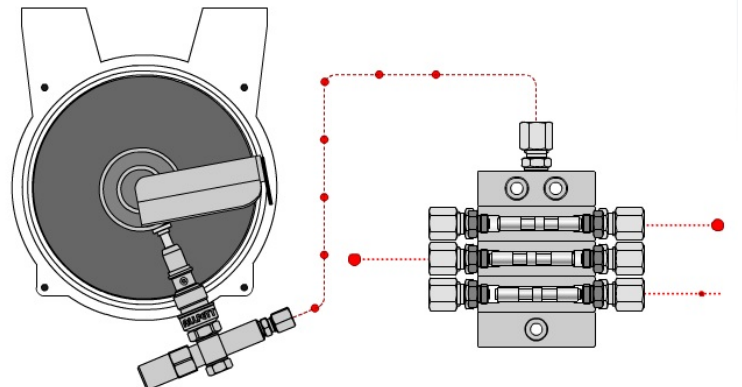
**Longer lasting components are the top advantages.** The potential savings through the increase lifespan of the components and an increase of productivity along with a more efficient consumption of grease will insure you a return on investment.

- Permits to **save significantly on grease up to 50%** compared to greasing manually.
- Each point receives a **precise amount of lubricant** corresponding to the manufacturer's recommendations.
- Maximize performance in **eliminating lost time** due to shut down for maintenance and repair.
- **Reduces maintenance costs** and repair costs.
- **Insures a complete lubrication** of the machine whatever.
- **Increases the life span of the parts** linked to the system compared to a manual lubrication.
- **Increases the resale value** of the equipment

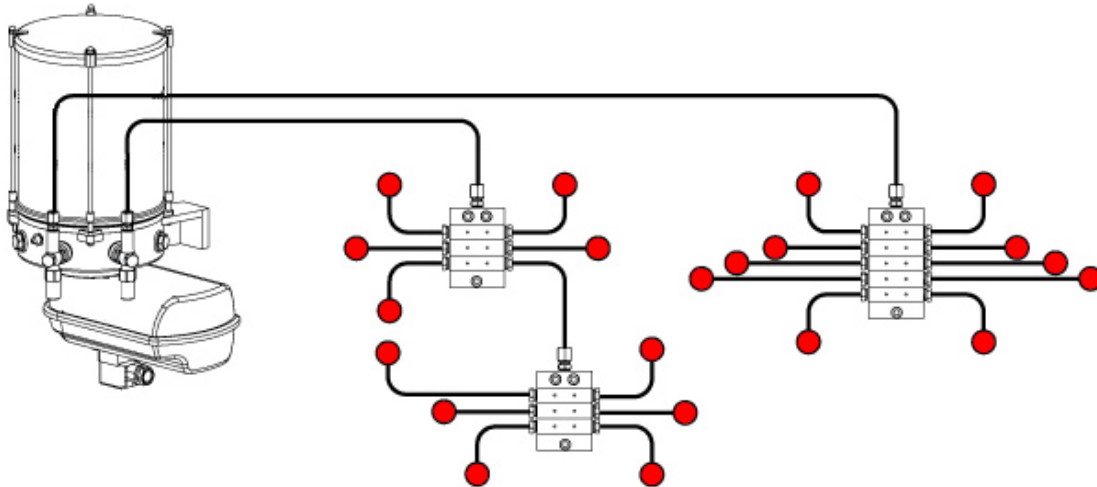
## Working principle

Their working principles are the same. At each motor rotation, the spring of the pump element (s) is (are) compressed in order to obtain the required pressure.

At the same time, inside the reservoir the mixing spoon is activated (clockwise) to mix and push the grease downward. This prevents grease separation and softens it when cold temperatures occur.



The progressive distribution valve function is to distribute grease to the other valves and points of lubrication. In each section, there is a valve that is used to start the lubricant. This is successively pushed to one side to another by the lubricant in a manner to which starts progressively towards the exits, one after another.



The amount of lubrication supplied by the pump is divided in the progressive valve and distributed to the lubrication points depending on the value of the section which supplies it. The amount delivered (cc) and the duration of the cycle from the pump determines the total amount sent to the lubrication points.

## Each equipment is different

---

Many factors are important when choosing an automatic lubrication system; the area being used, the work environment the option of the system, etc. The Alltech Group is conscious of this reality and **purposes a personalized system adapted to your needs.**

**Each system is pre-calibrated** in order to distribute the ideal grease to each point. Each machine has their customized calibration in order to meet the lubrication chart. The system **is adapted to all types of machines.**

Grease is the key element to your lubrication system. The choice of grease type is particularly important for the proper function of the system and will have direct impact on its efficiency.

### Recommended grease

---

After analyzing the **working** conditions of our automatic greasing system, here are the recommendations concerning the choice of the grease to use.

- Oil basis: Viscosity at 40°C between 100 and 220 CST
- Thickener: lithium or calcium sulfonate type
- Additive: Extreme Pressure
- NLGI grade: 1 and 2 (*for colder regions, use EP-1 grease from October to April and EP-2 grease from April to October.*)

### Non desirable elements:

- A high base oil viscosity will slow down the mobility of the product in cold weather.
- Certain thickener like barium, clays, etc.
- Solid additives like graphite, molly 5% and copper when the concentration exceeds 3 microns.

Here is a list of accepted greases for the **ALLFETT** systems.

- |                             |                       |
|-----------------------------|-----------------------|
| • Esso Epic EP              | • Hipertech APG-0 & 1 |
| • Esso Unirex EP            | • Hipertech SG-2      |
| • Shell Gadus S2 V220       | • Irving Lubex EP     |
| • Shell Gadus S3 V220       | • Prolab GSA-6000     |
| • Texaco Multifak EP        | • Prolab AF-400       |
| • Ultramar Ultra Lithium EP | • Prolab Moly 125     |
| • Prolab GS-1000            | • Prolab Moly 32-2    |
| • Sinto 250 EP              | • Prolab Mily 32-0    |
| • Texas Refinery 880        |                       |

ATTENTION! Mixing different types of grease may damage your system. That's why for all other non-listed greases, please confirm with your **ALLFETT** distributor if it is acceptable or not at the risk of a void warranty if you use non-accepted grease.



# ELECTRIC PUMPS

## VDC Series



### DESCRIPTION

Progressive VDC pumps are powered by an electric motor with an eccentric cam. At each motor rotation, the spring of the pump element (s) is (are) compressed in order to obtain the required pressure.



TECHNICAL SPECIFICATIONS	ALL-1 mini	ALL-1	ALL-10	
Power source	12 or 24 VDC			
Maximum pressure	400 bars*			
Protection class	IP54			
Recommended lubricant	Grease NLGI 0-1-2**			
Pump element	1 to 6			
Pump element capacity	2.5 cm³/min.			
Working temperature	-25°C to +80°C			
Reservoir capacity (liter)	1.5	4.5	6	14

\* Factory adjustment: 290 bars

\*\* The grease used must meet certain criteria, consult the section on recommended grease of this parts list.

### UTILISATION

VDC Series pump insures a continuous lubrication at a regular intervals the greasing points and the special points which have difficult access. It works while the machines engine is running along when all points are in movement.

**ALL-1 mini :** Ideal for small size machines which require a small amount of grease.

**ALL-1 :** Ideal for small to medium size machines which require a regular amount of grease.

**ALL-10 :** Ideal for large size machines which require a large amount of grease.

### PARTS NUMBER

# Parts	Model	Size (liters)	Voltage	Unit	# Group
AG10.15.12.S6	ALL-1 mini	1.5	12 VDC	ea.	1
AG10.15.24.S6	ALL-1 mini	1.5	24 VDC	ea.	1
AG10.45.12.S6	ALL-1	4.5	12 VDC	ea.	1
AG10.45.24.S6	ALL-1	4.5	24 VDC	ea.	1
AG10.06.12.S6	ALL-10	6	12 VDC	ea.	1
AG10.06.24.S6	ALL-10	6	24 VDC	ea.	1
AG10.14A.12.S6	ALL-10	14	12 VDC	ea.	1
AG10.14A.24.S6	ALL-10	14	24 VDC	ea.	1

NOTE: 10 meters of electric wires (ET10.02.18.01) & a piston with safety valve (BG10.40.06.01) are included with all VDC Standard pump.

For other configurations (with EC control card, cover, etc.). Consult the respective sections of each pump model.

# VDC ELECTRIC PUMPS

## ALL-1 mini (1,5 liters)

**ALLFETT®**



TECHNICAL SPECIFICATIONS	ALL-1 mini
Power source	12 or 24 VDC
Maximum pressure	400 bars*
Protection class	IP54
Recommended lubricant	Grease NLGI 0-1-2**
Pump element	1 to 6
Pump element capacity	2.5 cm <sup>3</sup> /min.
Working temperature	-25°C to +80°C
Reservoir capacity (liter)	1.5

\* Factory adjustment: 290 bars

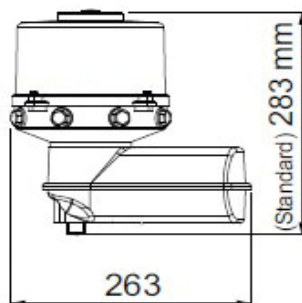
\*\* The grease used must meet certain criteria, consult the section on recommended grease of this parts list.

# Parts	Model	Size (liters)	Voltage	Unit	# Group
AG10.15.12.S6	Standard, piston Ø6	1.5	12 VDC	ea.	1
AG15.15.12.S6	Standard, piston Ø6, EC control card	1.5		ea.	1
AG10.15.12.F6	Cover*, piston Ø6	1.5		ea.	1
AG15.15.12.F6	Cover*, piston Ø6, EC control card	1.5		ea.	1
AG10.15.24.S6	Standard, piston Ø6	1.5	24 VDC	ea.	1
AG15.15.24.S6	Standard, piston Ø6, EC control card	1.5		ea.	1
AG10.15.24.F6	Cover*, piston Ø6	1.5		ea.	1
AG15.15.24.F6	Cover*, piston Ø6, EC control card	1.5		ea.	1

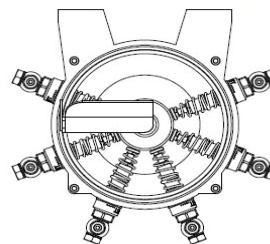
NOTE: The ALL-1 pump (1.5 liters) includes 10 meters of electrical wires (ET10.02.18.01M) & a piston with safety valve (BG10.40.06.01).

\* Included perforated glass (BG10.25.18.F0), but the filler cap must be added separately (BG10.38.F0.00).

### SIZES



Top view



### PUMP ELEMENT & CHECK VALVE

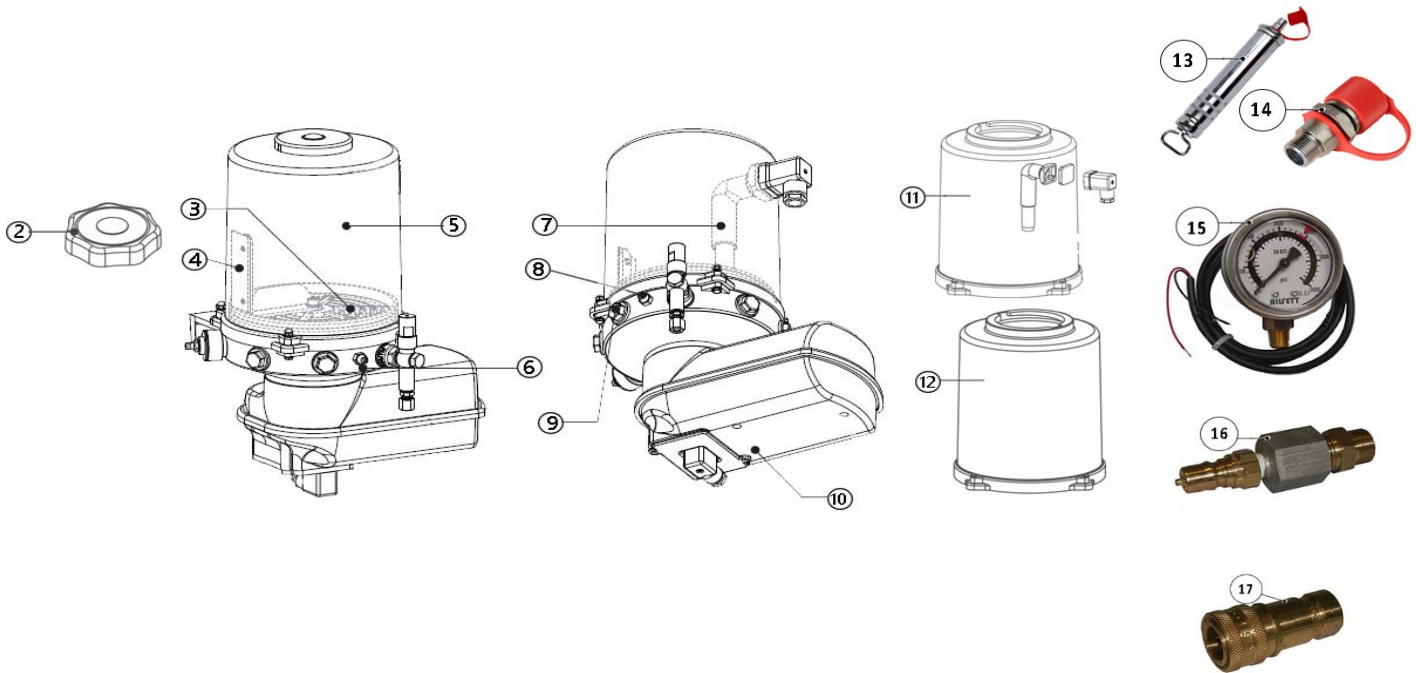


# Parts	Description	Unit	# Group
BG10.41.06.01	Pump element body only Ø6 - Gold series	ea.	25
BG10.40.06.01	Pump element with check valve Ø6 - Gold series	ea.	25
BG10.42.06.00	Safety valve (relief valve)	ea.	25
BG10.43.06.00	Spring for pump element	ea.	25

# VDC ELECTRIC PUMPS

## ALL-1 mini (1,5 liters)

**ALLFETT®**



### PUMP COMPONENT

# Picture	# Parts	Description	Unit	# Group
2	BG10.38.F0.00	Lid only for filling cover without key (optional)	ea.	25
3	BG10.15.00.A1	Filter only for monoblock pump	ea.	25
4	BG10.20.M1.00	Spatula (agitator)	ea.	25
5	BG10.25.15.00	Glass for 1.5 liters pump	ea.	25
6	BG10.10.06.A1	Pump body (Aluminium)	ea.	25
7	BG10.50.15.00	Teflon Low level grease indicator (optional) (Including regular 1,5L reservoir)	ea.	27
8	EG45.00.18.HP	High pressure grease nipple M10x1	ea.	100
9	BG10.13.PL.00	Plug for pump body	ea.	100
10	BG10.06.00.A1	Electric motor cover	ea.	25
11	BG10.50.15.F0	Teflon Low level grease indicator 1,5L (optional) (Including perforated glass - filling cover)	ea.	27
12	BG10.25.15.F0	1,5 liters perforated glass for lockable cover	ea.	25
	BG10.05.12.00	Motor 12V DC	ea.	25
	BG10.05.24.00	Motor 24V DC	ea.	25
13	BG10.61.PI.00	Filler gun (optional)	ea.	27
14	BG10.60.00.M20	Filling nozzle (optional)	ea.	27
15	BG10.45.MA.00	Noshok electric pressure switch with gauge (optional)	ea.	27
16	BG10.62.K1.14	Quick coupler kit for pump filling male (optional)*	ea.	26
17	BG10.62.K2.14	Quick coupler kit for pump filling female (optional)*	ea.	26

\* Quick coupler included rubber cap.

# VDC ELECTRIC PUMPS

## ALL-1 (4,5 liters)



### TECHNICAL SPECIFICATIONS

Power source	12 or 24 VDC
Maximum pressure	400 bars*
Protection class	IP54
Recommended lubricant	Grease NLGI 0-1-2**
Pump element	1 to 6
Pump element capacity	2.5 cm <sup>3</sup> /min.
Working temperature	-25°C to +80°C
Reservoir capacity (liter)	4.5

\* Factory adjustment: 290 bars

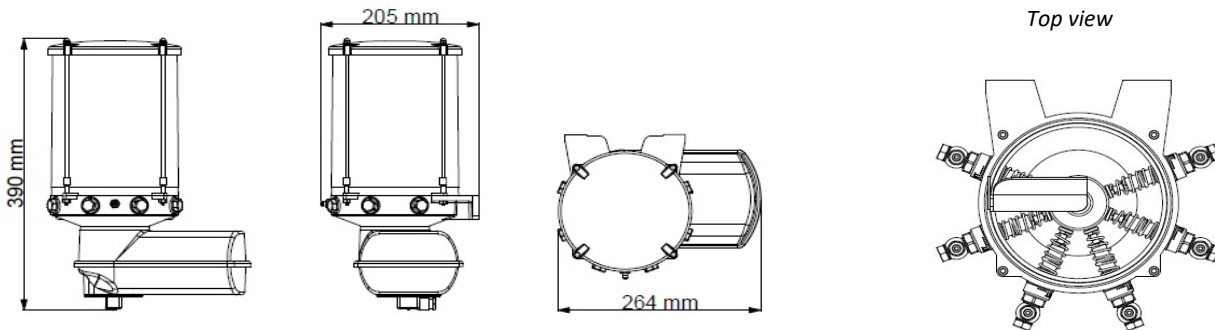
\*\* The grease used must meet certain criteria, consult the section on recommended grease of this parts list.

# Parts	Model	Size (liters)	Voltage	Unit	# Group
AG10.45.12.S6	Standard, piston Ø6	4.5	12 VDC	ea.	1
AG15.45.12.S6	Standard, piston Ø6, EC control card	4.5		ea.	1
AG10.45.12.F6	Cover*, piston Ø6	4.5		ea.	1
AG15.45.12.F6	Cover*, piston Ø6, EC control card	4.5		ea.	1
AG10.45.24.S6	Standard, piston Ø6	4.5	24 VDC	ea.	1
AG15.45.24.S6	Standard, piston Ø6, EC control card	4.5		ea.	1
AG10.45.24.F6	Cover*, piston Ø6	4.5		ea.	1
AG15.45.24.F6	Cover*, piston Ø6, EC control card	4.5		ea.	1

NOTE: The ALL-1 pump (4.5 liters) includes 10 meters of electrical wires (ET10.02.18.01M) & a piston with safety valve (BG10.40.06.01).

\*Including the filling cover base, the cap must be chose separately (BG10.38.F0.00)

### SIZES



### PUMP ELEMENT & CHECK VALVE

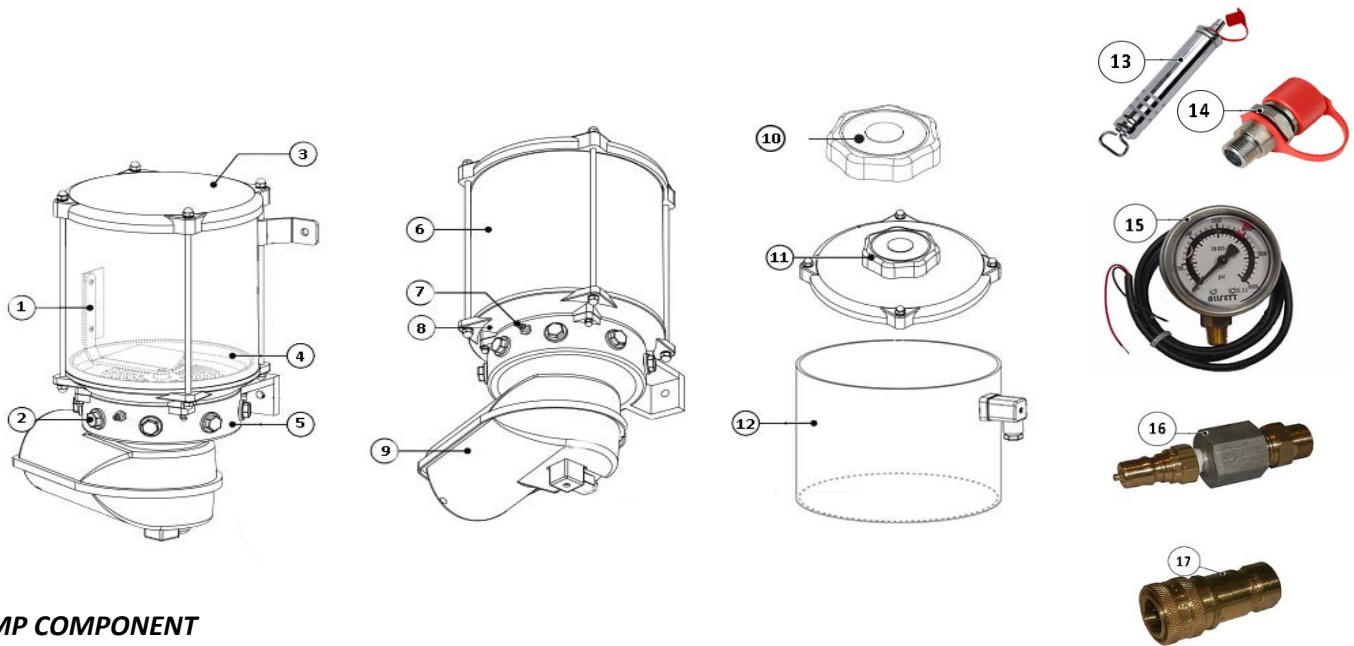


# Parts	Description	Unit	# Group
BG10.41.06.01	Pump element body only Ø6 - Gold series	ea.	25
BG10.40.06.01	Pump element with check valve Ø6 - Gold series	ea.	25
BG10.42.06.00	Safety valve (relief valve)	ea.	25
BG10.43.06.00	Spring for pump element	ea.	25

# VDC ELECTRIC PUMPS

## ALL-1 (4,5 liters)

**ALLFETT®**



### PUMP COMPONENT

# Picture	# Parts	Description	Unit	# Group
1	BG10.20.00.02	Spatula (agitator)	ea.	25
2	BG10.13.PL.00	Plug for pump body	ea.	100
3	BG10.35.ST.00	Standard pump cover (monoblock)	ea.	25
4	BG10.15.00.A1	Filter only for monoblock pump	ea.	25
5	BG10.10.06.A1	Pump body for pump (Aluminium)	ea.	25
6	BG10.25.45.00	Monoblock reservoir glass 4.5 liters	ea.	25
7	EG45.00.18.HP	High pressure grease nipple M10x1	ea.	100
9	BG10.06.00.A1	Electric motor cover	ea.	25
	BG10.05.12.00	Motor 12V DC	ea.	25
	BG10.05.24.00	Motor 24V DC	ea.	25
10	BG10.38.F0.00	LID only for filling cover (optional)	ea.	25
11	BG10.36.F0.00	Filling cover - monoblock pump without key (optional)	ea.	25
12	BG10.50.45.00	Low level grease indicator monoblock (optional) (Includingdng reservoir)	ea.	27
13	BG10.61.PI.00	Filler gun (optional)	ea.	27
14	BG10.60.00.M20	Filling nozzle (optional)	ea.	27
15	BG10.45.MA.00	Noshok electric pressure switch with gauge (optional)	ea.	27
16	BG10.62.K1.14	Quick coupler kit for pump filling male (optional)*	ea.	26
17	BG10.62.K2.14	Quick coupler kit for pump filling female (optional)*	ea.	26

\* Quick coupler included rubber cap.

# VDC ELECTRIC PUMPS

## ALL-10 (6 liters)

**ALLFETT**



### TECHNICAL SPECIFICATIONS

Power source	12 or 24 VDC
Maximum pressure	400 bars*
Protection class	IP54
Recommended lubricant	Grease NLGI 0-1-2**
Pump element	1 to 6
Pump element capacity	2.5 cm <sup>3</sup> /min..
Working temperature	-25°C to +80°C
Reservoir capacity (liter)	6

\* Factory adjustment: 290 bars

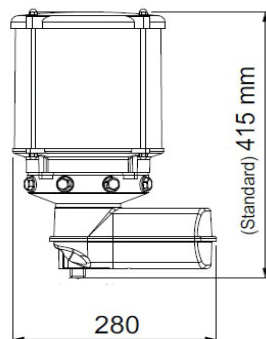
\*\* The grease used must meet certain criteria, consult the section on recommended grease of this parts list.

# Parts	Model	Size (liters)	Voltage	Unit	# Group
AG10.06.12.S6	Standard, piston Ø6	6	12 VDC	ea.	1
AG15.06.12.S6	Standard, piston Ø6, EC control card	6		ea.	1
AG10.06.12.F6	Cover*, piston Ø6	6		ea.	1
AG15.06.12.F6	Cover*, piston Ø6, EC control card	6		ea.	1
AG10.06.24.S6	Standard, piston Ø6	6	24 VDC	ea.	1
AG15.06.24.S6	Standard, piston Ø6, EC control card	6		ea.	1
AG10.06.24.F6	Cover*, piston Ø6	6		ea.	1
AG15.06.24.F6	Cover*, piston Ø6, EC control card	6		ea.	1

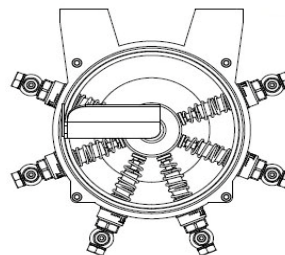
NOTE: The ALL-1 pump (6 liters) includes 10 meters of electrical wires (ET10.02.18.01M) & a piston with safety valve (BG10.40.06.01).

\*Including the filling cover base, the cap must be chose separately (BG10.38.F0.00)

### SIZES



Top view



### PUMP ELEMENT & CHECK VALVE



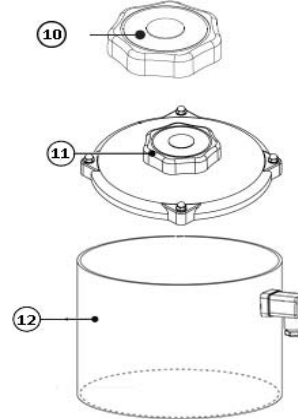
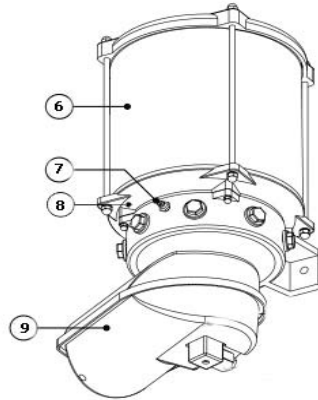
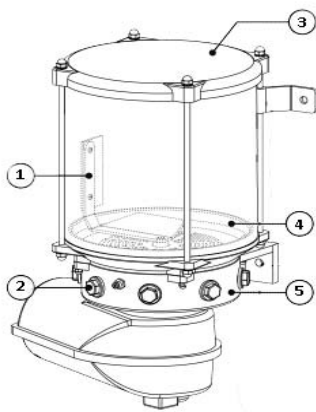
# Parts	Description	Unit	# Group
BG10.41.06.01	Pump element body only Ø6 - Gold series	ea.	25
BG10.40.06.01	Pump element with check valve Ø6 - Gold series	ea.	25
BG10.42.06.00	Safety valve (relief valve)	ea.	25
BG10.43.06.00	Spring for pump element	ea.	25



# VDC ELECTRIC PUMPS

## ALL-10 (6 liters)

**ALLFETT®**



### PUMP COMPONENT

# Picture	# Parts	Description	Unit	# Group
1	BG10.20.00.02	Spatula (agitator)	ea.	25
2	BG10.13.PL.00	Plug for pump body	ea.	100
3	BG10.35.ST.00	Standard pump cover (monoblock)	ea.	25
4	BG10.15.00.A1	Filter only for monoblock pump	ea.	25
5	BG10.10.06.A1	Pump body for pump (Aluminium)	ea.	25
6	BG10.25.45.00	Monoblock reservoir glass 4.5 liters	ea.	25
7	EG45.00.18.HP	High pressure grease nipple M10x1	ea.	100
8	BG10.13.SP.A1	Aluminium adaptor	ea.	25
9	BG10.06.00.A1	Electric motor cover	ea.	25
	BG10.05.12.00	Motor 12V DC	ea.	25
	BG10.05.24.00	Motor 24V DC	ea.	25
10	BG10.38.F0.00	LID only for filling cover (optional)	ea.	25
11	BG10.36.F0.00	Filling cover - monoblock pump without key (optional)	ea.	25
12	BG10.50.45.00	Low level grease indicator monoblock (optional) (Includingdng reservoir)	ea.	27
13	BG10.61.PI.00	Filler gun (optional)	ea.	27
14	BG10.60.00.M20	Filling nozzle (optional)	ea.	27
15	BG10.45.MA.00	Noshok electric pressure switch with gauge (optional)	ea.	27
16	BG10.62.K1.14	Quick coupler kit for pump filling male (optional)*	ea.	26
17	BG10.62.K2.14	Quick coupler kit for pump filling female (optional)*	ea.	26

\* Quick coupler included rubber cap.

# VDC ELECTRIC PUMPS

## ALL-10 (14 liters)

**ALLFETT**



### TECHNICAL SPECIFICATIONS

	ALL-10
Power source	12 or 24 VDC
Maximum pressure	400 bars*
Protection class	IP54
Recommended lubricant	Grease NLGI 0-1-2**
Pump element	1 to 6
Pump element capacity	2.5 cm <sup>3</sup> /min.
Working temperature	-25°C to +80°C
Reservoir capacity (liter)	14

\* Factory adjustment: 290 bars

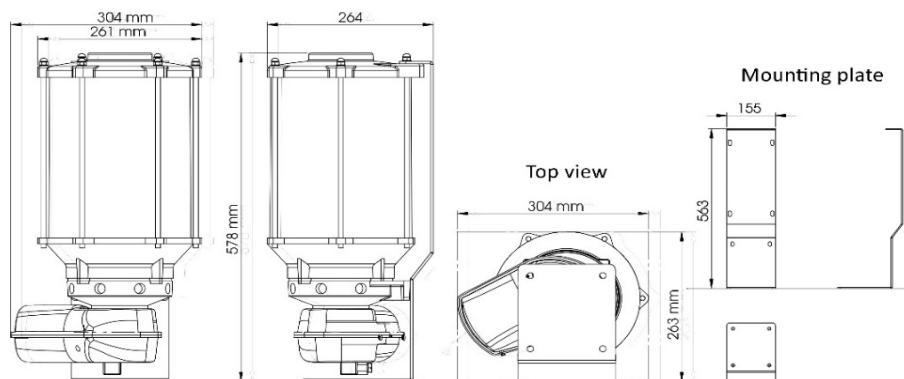
\*\*The grease used must meet certain criteria, consult the section on recommended grease of this parts list.

# Parts	Model	Size (liters)	Voltage	Unit	# Group
AG10.14A.12.S6	Standard, piston Ø6	14	12 VDC	ea.	1
AG15.14A.12.S6	Standard, piston Ø6, EC control card	14		ea.	1
AG10.14A.12.F6	Cover*, piston Ø6	14		ea.	1
AG15.14A.12.F6	Cover*, piston Ø6, EC control card	14		ea.	1
AG10.14A.24.S6	Standard, piston Ø6	14	24 VDC	ea.	1
AG15.14A.24.S6	Standard, piston Ø6, EC control card	14		ea.	1
AG10.14A.24.F6	Cover*, piston Ø6	14		ea.	1
AG15.14A.24.F6	Cover*, piston Ø6, EC control card	14		ea.	1

NOTE: The ALL-1 pump (14 liters) includes 10 meters of electrical wires (ET10.02.18.01M) & a piston with safety valve (BG10.40.06.01) & a Mounting plate (BG10.65.02.01).

\*Including the filling cover base, the cap must be chose separately (BG10.38.F0.00)

### DIMENSIONS



### PUMP ELEMENT & CHECK VALVE



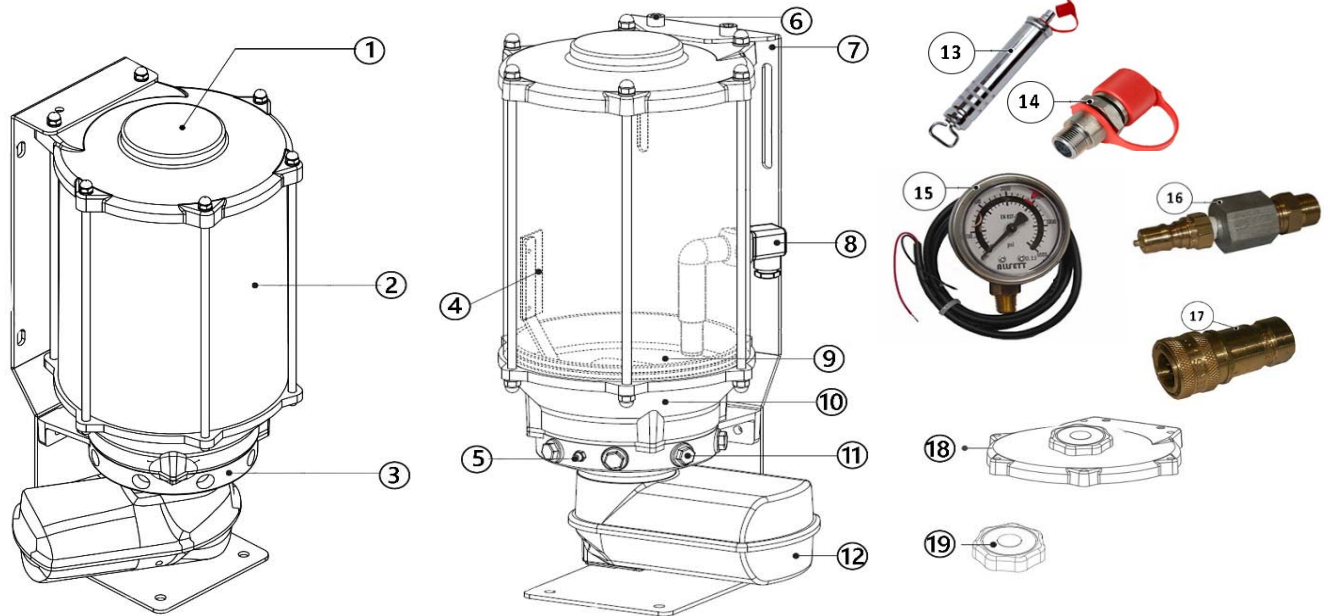
# Parts	Description	Unit	# Group
BG10.41.06.01	Pump element body only Ø6 - Gold series	ea.	25
BG10.40.06.01	Pump element with check valve Ø6 - Gold series	ea.	25
BG10.42.06.00	Safety valve (relief valve)	ea.	25
BG10.43.06.00	Spring for pump element	ea.	25



# VDC ELECTRIC PUMPS

## ALL-10 (14 liters)

**ALLFETT®**



### PUMP COMPONENT

# Picture	# Parts	Description	Unit	# Group
1	BG10.35.ST.01	Standard pump cover (monoblock)	ea.	25
2	BG10.25.14.00	Monoblock reservoir glass 14L	ea.	25
3	BG10.10.06.A1	Pump body for pump (6 outlets)	ea.	25
4	BG10.20.00.01	Spatula (agitator)	ea.	25
5	EG45.00.18.HP	High pressure grease nipple M10x1	ea.	100
6	XBG10.33.B8.25	Bolt for mounting plate (M8 x 25mm)	ea.	100
7	BG10.65.02.01	Mounting plate for pump (Large)	ea.	100
8	BG10.50.14.00	Low level grease indicator monoblock (optional) (Includingdng reservoir)	ea.	27
9	BG10.15.00.A1	Filter only for monoblock pump	ea.	25
10	BG10.13.SP.A1	Reservoir expansion spacer for ALL-10	ea.	25
11	BG10.13.PL.00	Plug for pump body	ea.	100
12	BG10.06.00.A1	Electric motor cover	ea.	25
	BG10.05.12.00	Motor 12V DC	ea.	25
	BG10.05.24.00	Motor 24V DC	ea.	25
13	BG10.61.PI.00	Filler gun (optional)	ea.	27
14	BG10.60.00.M20	Filling nozzle (optional)	ea.	27
15	BG10.45.MA.00	Noshok electric pressure switch with gauge (optional)	ea.	27
16	BG10.62.K1.14	Quick coupler kit for pump filling male (optional)*	ea.	26
17	BG10.62.K2.14	Quick coupler kit for pump filling female (optional)*	ea.	26
18	BG10.36.F0.01	Filling cover - monoblock pump without key (optional)	ea.	25
19	BG10.38.F0.00	Filling cover - monoblock pump with key (optional)	ea.	25

\* Les kits d'attache rapide incluent un capuchon de caoutchouc

## DESCRIPTION

The electronic control cards is used to operate and monitor the automatic lubrication system by managing the working and stand-by periods. This allows you to adjust it to supply the right amount of lubricant to each point. The working period, number of pulse and stand-by periods can be easily adjusted with the lubrication chart.



TECHNICAL SPECIFICATIONS	EK-9	EC control card
Voltage	10-30V	
Protection class	IP40	IP65
Working temperature	-25°C to 80°C	-40°C to 80°C
Amperage	3A	3A
Monitored control	Pulse and Timer	Timer
Working period	Between 1 sec. and 60 min. OR Between 1 pulses and 99 pulses*	Between 1 sec and 99hrs
Stand-by period	Between 1 sec and 99hrs	Between 1 sec and 99hrs

\* Since 2019, the EK-9 control card can operate in pulsation and minutes.

## APPLICATION

The electronic control cards is used to operate and monitor the automatic lubrication system They are compatibles with all **ALLFETT** VDC progressive pumps.

<b>EK-9 :</b>	Used on progressive system (Cards used by default with all systems since 2013.) when it is POSSIBLE to install it sheltered from bad weather.
<b>EC:</b>	Used on progressive systems when it is IMPOSSIBLE to install the control card sheltered from the weather. (Ex: The equipment doesn't have a cab).

## PARTS NUMBER

# Parts	Modal	Unit	Group
CG10.EX.09.00	EK-9	ea.	50
CG10.EX.10.IN	EC (integrated control card)	ea.	50

NOTE: All electronic control cards includes a RF (radio frequency) choke snap-on ferrite (CG15.FE.00.43).

# CONTROL CARDS

## EK-9



The electronic control cards is used to operate and monitor the automatic lubrication system by managing the working and stand-by periods. This allows you to adjust it to supply the right amount of lubricant to each point. The working and stand-by periods can be easily adjusted with the lubrication chart.



### TECHNICAL SPECIFICATIONS

### EK-9

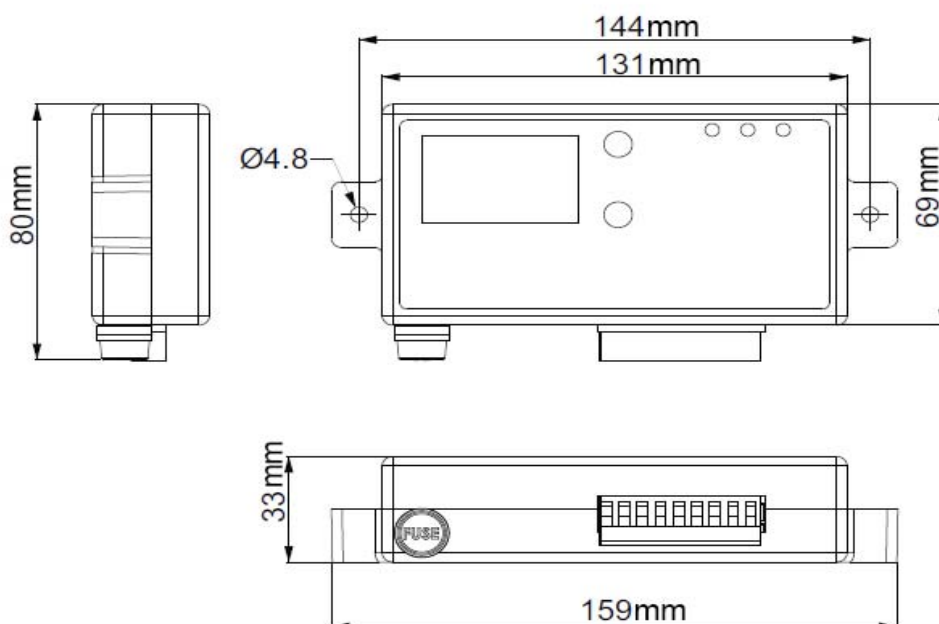
Voltage	10-30V
Protection class	IP40
Working temperature	-25°C to 80°C
Amperage	3A
Monitored control	Pulse and timer
Working period	Between 1 sec. and 60 min. OR Between 1 pulses and 99 pulses*
Stand-by period	Between 1 sec and 99hrs

\* Since 2019, the EK-9 control card can operate in pulsations and minutes.

# Parts	Modal	Unit	Group
CG10.EX.09.00	EK-9	ea.	50

NOTE: The EK-9 control card includes a RF (radio frequency) choke snap-on ferrite (CG15.FE.00.43).

### SIZES



### CONTROL CARD COMPONENT

# picture	# Parts	Description	Unit	# Group
1	CG15.FU.00.03	3 amps fuse	ea.	50
2	CG15.FE.00.43	RF (radio frequency) choke snap-on ferrite 43	ea.	100

# CONTROL CARDS

## EC control card (integrated)

**ALLFETT**

The electronic control cards is used to operate and monitor the automatic lubrication system by managing the working and stand-by periods. This allows you to adjust it to supply the right amount of lubricant to each point. The working and stand-by periods can be easily adjusted with the lubrication chart.



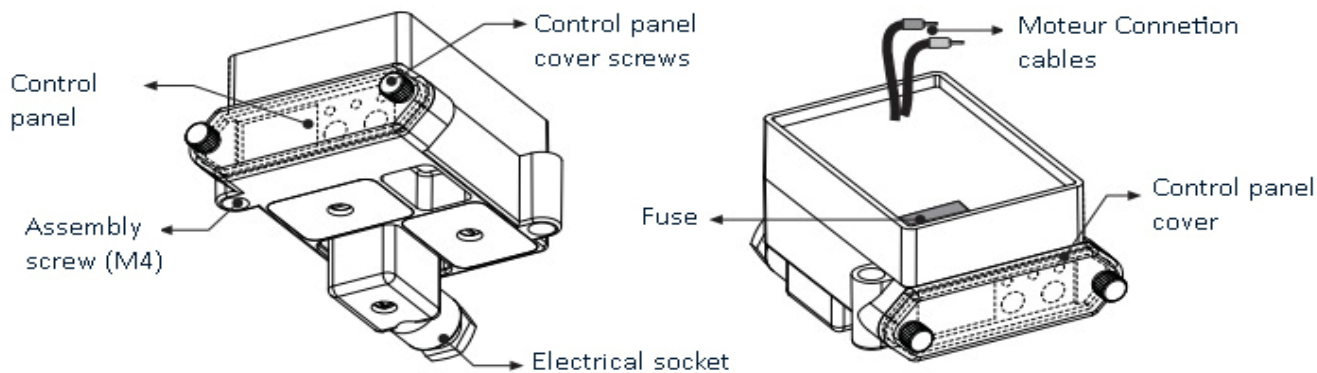
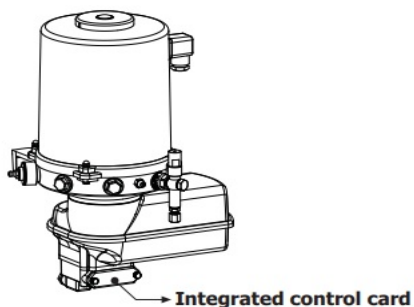
### TECHNICAL SPECIFICATIONS

	EC (Integrated)
Voltage	10-30V
Protection class	IP65
Working temperature	-40°C to 80°C
Amperage	3A
Monitored control	Timer
Working period	Between 1 sec and 99hrs
Stand-by period	Between 1 sec and 99hrs

# Parts	Modal	Unit	Group
CG10.IN.00.00	EC (integrated)	ea.	50

NOTE: The EC control card includes a RF (radio frequency) choke snap-on ferrite (CG15.FE.00.43).

### CONTROL CARD COMPONENT



# picture	# Parts	Description	Unit	# Group
1	CG15.FU.00.03	3 amps fuse	ea.	50
2	CG15.FE.00.43	RF (radio frequency) choke snap-on ferrite 43	ea.	100

## DESCRIPTION

The progressive distribution valve administers grease to all other valves and/or lubrication points of the system. The amount of lubricant (cc) released to one point can differ from one another. The values of the central elements are selected according to the equipment needs and its working environment. The valve consists in modules that can be assembled into numerous configurations.



TECHNICAL SPECIFICATIONS	Progressive	LD Progressive	Progressive Monobloc
Dosage available by section	0,050cc 0,078cc 0,113cc	0,060cc 0,100cc 0,140cc 0,190cc 0,250cc	0.113cc
Working pressure	Maximum: 400 bars Minimum: 7.5 bars		
Lubrication point (s) per valve	Maximum: 18 Minimum: 2		Maximum: 20 Minimum: 2
Working temperature	-25°C to +80°C		-40°C to +80°C
Inlet / Outlet connection	M10x1		
Recommended lubricant	Grease NLGI 0-1-2*		
Material	Galvanized steel		

\* The grease used must meet certain criteria, consult the section on recommended grease of this parts list.

## UTILISATION

Each distribution valve is pre-calibrated in order to distribute the ideal grease to each point (according to the lubrication chart of the equipment).

<b>Progressive:</b>	Recommended for small to medium size machines which require a regular amount of grease.
<b>LD Progressive:</b>	Recommended for large size machines which require a large amount of grease. They can supply grease to stations that are at an impressive distance.
<b>Progressive Monobloc:</b>	Used on machinery whose lubrication points require a similar amount of grease.

## PARTS NUMBER

PROGRESSIVE	LD PROGRESSIVE	PROGRESSIVE MONOBLOC	Description	Unit	Group
# Parts	# Parts	# Parts	# section / # outlet		
DG10.RG.03.06	DG10.LD.03.06	DG10.MB.00.06	3/6	ea.	75
DG10.RG.04.08	DG10.LD.04.08	DG10.MB.00.08	4/8	ea.	75
DG10.RG.05.10	DG10.LD.05.10	DG10.MB.00.10	5/10	ea.	75
DG10.RG.06.12	DG10.LD.06.12	DG10.MB.00.12	6/12	ea.	75
DG10.RG.07.14	DG10.LD.07.14	DG10.MB.00.14	7/14	ea.	75
DG10.RG.08.16	DG10.LD.08.16	DG10.MB.00.16	8/16	ea.	75
DG10.RG.09.18	DG10.LD.09.18	DG10.MB.00.18	9/18	ea.	75
		DG10.MB.00.20	10/20	ea.	75

The progressive distribution valves have a manual greasing nipple that allows you to manually grease the system. It's also allowing you to test the valves in case of system failure.

The number of section does not include the starting element, or the end element.

# DISTRIBUTION VALVES

## Progressive valve



The progressive distribution valve administers grease to all other valves and/or lubrication points of the system. The amount of lubricant (cc) released to one point can differ from one another. The values of the central elements are selected according to the equipment needs and its working environment. The valve consists in modules that can be assembled into numerous configurations.



### TECHNICAL SPECIFICATIONS

*Dosage available by section*

*Working pressure*

*Lubrication point (s) per valve*

*Working temperature*

*Inlet / Outlet connection*

*Recommended lubricant*

*Material*

### Progressive Valve

0,050cc

0,078cc

0,113cc

Maximum: 400 bars

Minimum: 7.5 bars

Maximum: 18

Minimum: 2

-25°C to +80°C

M10x1

Graisse NLGI 0-1-2\*

Galvanized steel

\* The grease used must meet certain criteria, consult the section on recommended grease of this parts list.

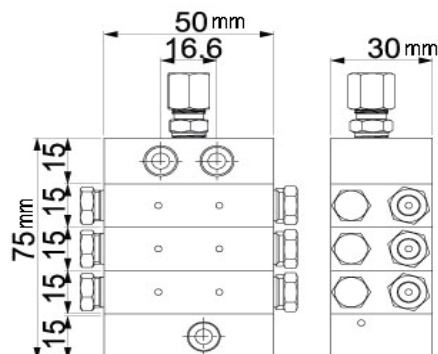
# Parts	Description	Unit	# Group
	(# section / # outlet)		
DG10.RG.03.06	3/6	ea.	75
DG10.RG.04.08	4/8	ea.	75
DG10.RG.05.10	5/10	ea.	75
DG10.RG.06.12	6/12	ea.	75
DG10.RG.07.14	7/14	ea.	75
DG10.RG.08.16	8/16	ea.	75
DG10.RG.09.18	9/18	ea.	75

Note: Each distribution valve has a distinct calibration according to the lubrication chart of the equipment that needs to be lubricate.

The progressive distribution valves have a manual greasing nipple that allows you to manually grease the system. It's also allowing you to test the valves in case of system failure.

The number of section does not include the starting element, or the end element.

### SIZES





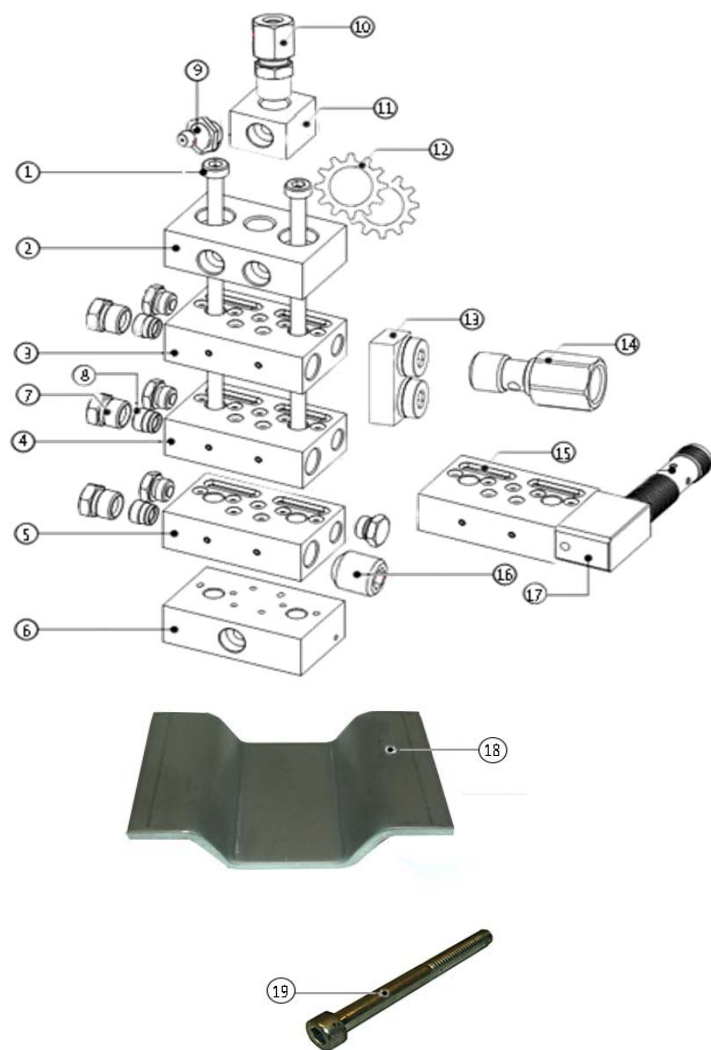
# DISTRIBUTION VALVES

## Progressive valve



### PROGRESSIVE DISTRIBUTION VALVE COMPONENT

Note: Each distribution valve has a distinct calibration according to the lubrication chart of the equipment that needs to be lubricate.



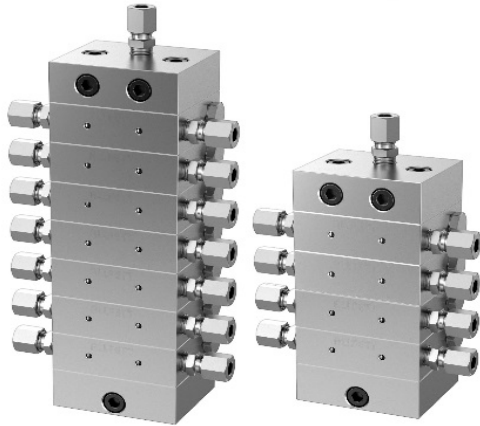
# picture	# Parts	Description	Unit	Group
1	DG30.RG.03.070	Bolt M6x70mm (3/6)	ea.	75
	DG30.RG.04.090	Bolt M6x90mm (4/8)	ea.	75
	DG30.RG.05.100	Bolt M6x100mm (5/10)	ea.	75
	DG30.RG.06.120	Bolt M6x120mm (6/12)	ea.	75
	DG30.RG.07.130	Bolt M6x130mm (7/14)	ea.	75
	DG30.RG.08.150	Bolt M6x150mm (8/16)	ea.	75
	DG30.RG.09.160	Bolt M6x160mm (9/18)	ea.	75
2	DG20.RG.000.ST	Starting element	ea.	75
3	DG20.RG.050.CT	Central element (50)	ea.	75
4	DG20.RG.078.CT	Central element (78)	ea.	75
5	DG20.RG.113.CT	Central element (113)	ea.	75
6	DG20.RG.000.EN	End element	ea.	75
7	EG35.00.06.00	Cap screw 6mm	ea.	100
8	EG30.DB.06.00	Double sided compr. ring 6mm	ea.	100
9	EG45.00.18.HP	High pressure grease nipple M10	ea.	100
10	EG70.M10.06.L2	Straight fitting M10 x 6mm LL compression	ea.	100
11	EG92.03.18.18	Brass tee M x F x F 1/8" NPT	ea.	100
12	DG40.00.ST.00	Star washer M6	ea.	75
13	DG40.RG.BD.00	Complete steel bridge	ea.	75
14	DG40.00.CV.00	Check valve	ea.	100
15	DG40.00.OR.02	O'ring 2 x 5 x 1.5	ea.	75
	DG40.00.OR.06	O'ring 6 x 9 x 1.5	ea.	75
	DG40.00.OR.07	O'ring 7.10 x 10.30 x 1.6	ea.	75
	DG40.00.OR.11	O'ring 11.10 x 14.30 x 1.6	ea.	75
16	DG40.00.PG.00	Plug M10	ea.	100
17	DG20.RG.113.CTPL	Central element with cycle switch	ea.	75
18	DG40.00.SD.00	Bracket for progressive distributor	ea.	100
19	DG30.RG.00.035	Bolt for fixation M5x35mm	ea.	75

# DISTRIBUTION VALVES

## LD progressive valve



The progressive distribution valve administers grease to all other valves and/or lubrication points of the system. The amount of lubricant (cc) released to one point can differ from one another. The values of the central elements are selected according to the equipment needs and its working environment. The valve consists in modules that can be assembled into numerous configurations.



TECHNICAL SPECIFICATIONS	LD progressive valve
Dosage available per section	0,060cc
	0,100cc
	0,140cc
	0,190cc
	0,250cc
Working pressure	Maximum: 400 bars Minimum: 25 bars
Lubrication point (s) per valve	Maximum: 18 Minimum: 2
Working temperature	-40°C to +80°C
Inlet / Outlet connection	M10x1
Recommended lubricant	Grease NLGI 0-1-2*
Material	Galvanized steel

\* The grease used must meet certain criteria, consult the section on recommended grease of this parts list.

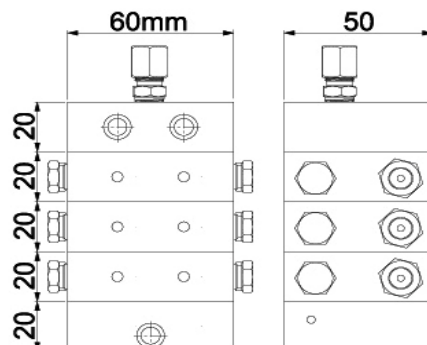
# Parts	Description	Unit	# Group
	(# section / # outlet)		
DG10.LD.03.06	3/6	ea.	75
DG10.LD.04.08	4/8	ea.	75
DG10.LD.05.10	5/10	ea.	75
DG10.LD.06.12	6/12	ea.	75
DG10.LD.07.14	7/14	ea.	75
DG10.LD.08.16	8/16	ea.	75
DG10.LD.09.18	9/18	ea.	75

Note: Each distribution valve has a distinct calibration according to the lubrication chart of the equipment that needs to be lubricate.

The progressive distribution valves have a manual greasing nipple that allows you to manually grease the system. It's also allowing you to test the valves in case of system failure.

The number of section does not include the starting element, or the end element.

## SIZES





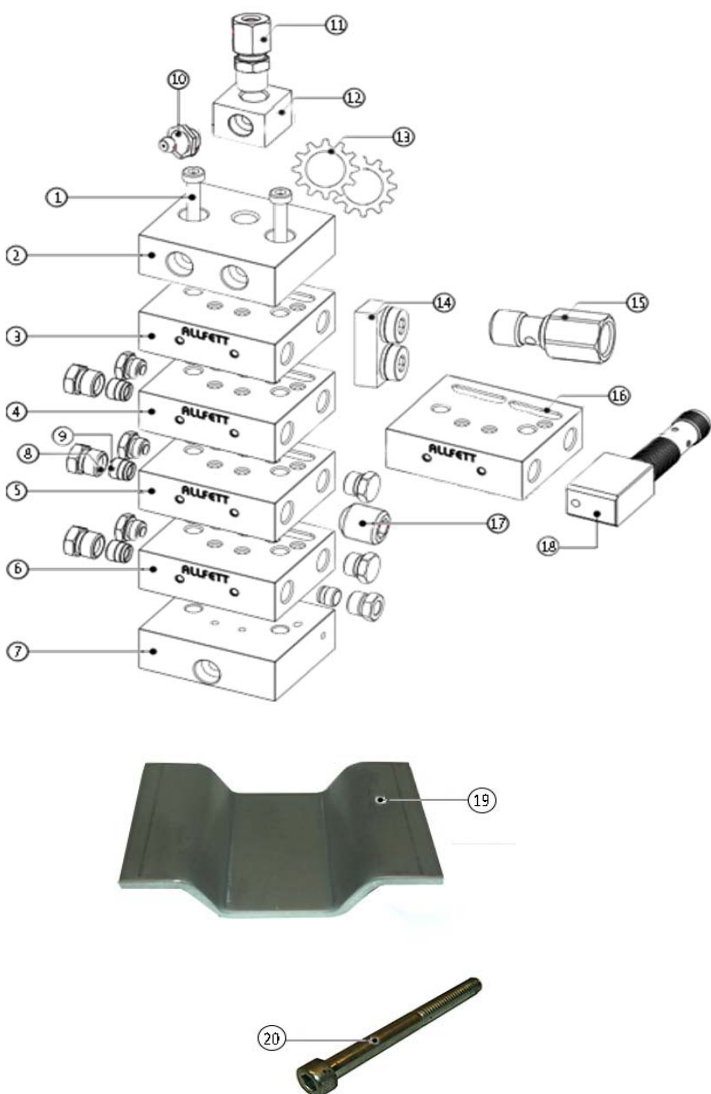
# DISTRIBUTION VALVES

## LD Progressive valve



### LD PROGRESSIVE DISTRIBUTION VALVE COMPONENT

Note: Each distribution valve has a distinct calibration according to the lubrication chart of the equipment that needs to be lubricate.



# picture	# parts	Description	unit	Group
1	DG30.LD.03.090	Bolt LD M6x90mm (3/6)	ea.	75
	DG30.LD.04.110	Bolt LD M6x110mm (4/8)	ea.	75
	DG30.LD.05.130	Bolt LD M6x130mm (5/10)	ea.	75
	DG30.LD.06.150	Bolt LD M6x150mm (6/12)	ea.	75
	DG30.LD.07.170	Bolt LD M6x170mm (7/14)	ea.	75
	DG30.LD.08.190	Bolt LD M6x190mm (8/16)	ea.	75
	DG30.LD.09.210	Bolt LD M6x210mm (9/18)	ea.	75
2	DG20.LD.000.ST	Starting element LD	ea.	75
3	DG20.LD.060.CT	Central element (60) LD	ea.	75
4	DG20.LD.100.CT	Central element (100) LD	ea.	75
5	DG20.LD.140.CT	Central element (140) LD	ea.	75
	DG20.LD.190.CT	Central element (190) LD	ea.	75
6	DG20.LD.250.CT	Central element (201) LD	ea.	75
7	DG20.LD.000.EN	End element LD	ea.	75
8	EG35.00.06.00	Cap screw 6mm	ea.	100
9	EG30.DB.06.00	Double sided compr. ring 6mm	ea.	100
10	EG45.00.18.HP	High pressure grease nipple M10	ea.	100
11	EG70.M10.06.L2	Straight fitting M10 x 6mm LL compression	ea.	100
12	EG92.03.18.18	Brass tee M x F x F 1/8" NPT	ea.	100
13	DG40.00.ST.00	Star washer M6	ea.	75
14	DG40.LD.BD.00	Complete steel bridge LD	ea.	75
15	DG40.00.CV.00	Check valve	ea.	100
16	DG40.00.OR.02	O'ring 2 x 5 x 1.5	ea.	75
	DG40.00.OR.06	O'ring 6 x 9 x 1.5	ea.	75
	DG40.00.OR.07	O'ring 7.10 x 10.30 x 1.6	ea.	75
	DG40.00.OR.11	O'ring 11.10 x 14.30 x 1.6	ea.	75
17	DG40.00.PG.00	Plug M10	ea.	100
18	DG20.LD.140.CTPL	Central element LD with cycle switch	ea.	75
19	DG40.00.SD.00	Bracket for progressive distributor	ea.	100
20	DG30.LD.00.055	Bolt for LD fixation M6x55mm	ea.	75

# MONOBLOC DISTRIBUTION VALVE



The progressive distribution valve administers grease to all other valves and/or lubrication points of the system. It is possible to block an outlet with a plug to double or multiply the quantity of grease delivered.



## TECHNICAL SPECIFICATIONS

	Monobloc valve
Dosage available per section	0.2cm <sup>3</sup> /outlet
Working pressure	Maximum: 400 bars
	Minimum: 7,5 bars
Lubrication point (s) per valve	Maximum: 20
	Minimum: 2
Working temperature	-40°C to +80°C
Inlet / Outlet connection	M10x1
Recommended lubricant	Grease NLGI 0-1-2*
Material	Galvanized steel

\* The grease used must meet certain criteria, consult the section on recommended grease of this parts list.

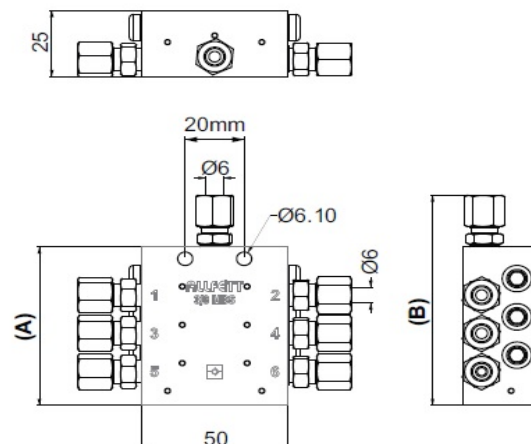
# Parts	Description	Unit	# Group
	(# section / # outlet)		
DG10.MB.00.06	3/6	ea.	75
DG10.MB.00.08	4/8	ea.	75
DG10.MB.00.10	5/10	ea.	75
DG10.MB.00.12	6/12	ea.	75
DG10.MB.00.14	7/14	ea.	75
DG10.MB.00.16	8/16	ea.	75
DG10.MB.00.18	9/18	ea.	75
DG10.MB.00.20	10/20	ea.	75

The progressive distribution valves have a manual greasing nipple that allows you to manually grease the system. It's also allowing you to test the valves in case of system failure.

## SIZES (mm)

Distributeur	(A)	(B)
DG10.MB.00.06	60	80
DG10.MB.00.08	74.5	94.5
DG10.MB.00.10	89	109
DG10.MB.00.12	103.5	123.5
DG10.MB.00.14	118	138
DG10.MB.00.16	132.5	152.5
DG10.MB.00.18	147	167
DG10.MB.00.20	161.5	181.5

FIGURE - 1



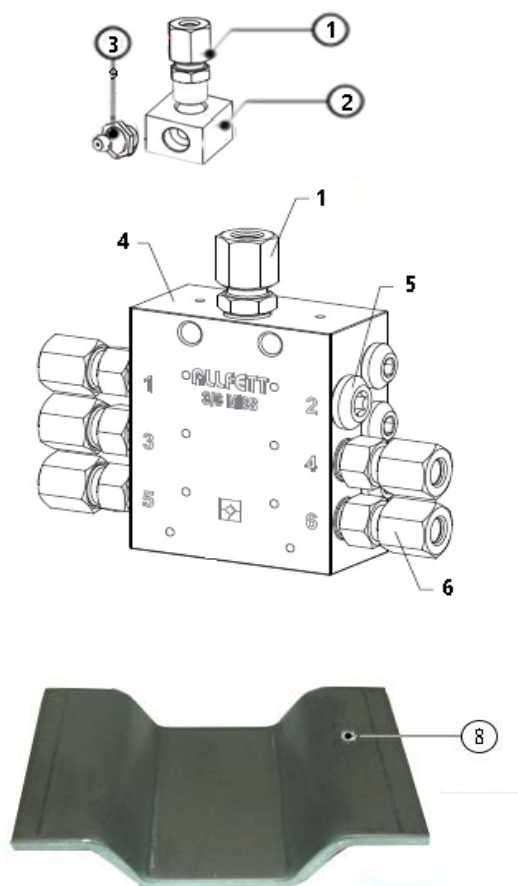
# VALVES DE DISTRIBUTION

## Monobloc progressive valve

**ALLFETT**

### MONOBLOC PROGRESSIVE DISTRIBUTION VALVE COMPONENT

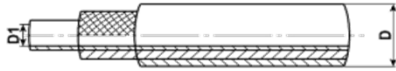
Note: Each distribution valve has a distinct calibration according to the lubrication chart of the equipment that needs to be lubricate.



# picture	# parts	Description	unit	Group
1	EG70.M10.06.L2	Straight fitting M10 x 6mm LL compression	ea.	100
2	EG92.03.18.18	Brass tee M x F x F 1/8" NPT	ea.	100
3	EG45.00.18.HP	High pressure grease nipple	ea.	100
4	DG10.MB.00.06	Distributor MBS-6	ea.	75
	DG10.MB.00.08	Distributor MBS-8	ea.	75
	DG10.MB.00.10	Distributor MBS-10	ea.	75
	DG10.MB.00.12	Distributor MBS-12	ea.	75
	DG10.MB.00.14	Distributor MBS-14	ea.	75
	DG10.MB.00.16	Distributor MBS-16	ea.	75
	DG10.MB.00.18	Distributor MBS-18	ea.	75
	DG10.MB.00.20	Distributor MBS-20	ea.	75
5	DG40.MB.PG.00	MBS Plug	ea.	75
	DG40.MB.PG.01	MBS Plug (back)	ea.	75
6*	DG40.MB.CV.00	MBS Check valve	ea.	75
	DG40.MB.CV.01	MBS Straight coupling standard	ea.	75
	DG40.MB.PL.00	Pulse counter NPN for MBS Valve	ea.	75
	DG40.MB.PL.01	Pulse counter PNP for MBS Valve	ea.	75
	DG40.MB.PL.03	MBS mechanical indicator Ø3	ea.	75
	DG40.MB.PL.04	MBS mechanical indicator Ø4	ea.	75

\* The check valve is used on the main distribution valves (grease line to another valve)  
while the straight coupling is used on the secondary distribution valves (grease line to a grease point)

## HIGH PRESSURE HOSE



# parts	D	D1	unit	Group
EG05.06.00.ME*	8.6	4	m.	100
EG05.08.00.ME**	11.3	6.3	m.	100

\* Compatible with 6mm fittings

\*\* Compatible with 8mm fittings

- Hose is always pre-filled with grease (NLGI class 2)
- Roll = 50 m.
- Working pressure: 600-840 bars

NOTE: A socket and socket adapter are required to connect the hoses

## POLYAMIDE HOSE



# parts	D	S	unit	Group
EG06.06.00.ME*	6mm	1.5	m.	100

\* Compatible with 6mm fittings

- Hose is always pre-filled with grease
- Roll = 100 m.
- Working pressure: 1291PSI / 9MPa / 89 bars

## GALVANIZED STEEL TUBING



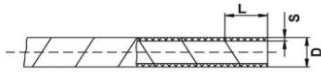
# parts	D	unit	Group
EG07.06.01.PI*	6mm	ft.	100
EG07.08.01.ME**	8mm	m.	100

\* Compatible with 6mm fittings

\*\* Compatible with 8mm fittings

- Hose is always empty
- 1 rod = 10 ft
- Sold only in 5 or 10 foot rods

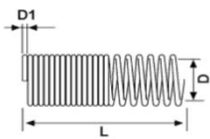
## PROTECTIVE PLASTIC LOOM



# Parts	D	D1	S	unit	Group
EG15.14.00.ME	10	11	1.5	m.	100

- Loom 1 bag = 50 m.

## PROTECTIVE LOOM (SPRING)



# Parts	D	D1	L	unit	Group
EG16.00.00.PI			5 ft.	ft.	100

- Minimum order: 1 rod = 5 ft.

## STANDARD PIPE CLAMPS



# Parts	D (mm)	D1	D2	unit	Group
EG20.RG.M5.06	6	5.3	12	ea.	100
EG20.RG.M6.09	9	5.3	12	ea.	100
EG20.RG.M6.12	12	5.3	12	ea.	100
EG20.RG.M6.18	18	5.3	12	ea.	100
EG20.RG.M6.22	22	5.3	12	ea.	100
EG20.RG.M6.25	25	5.3	12	ea.	100
EG20.RG.M6.29	29	5.3	12	ea.	100
EG20.RG.M6.30	30	5.3	12	ea.	100

- D1: Compatible with bolt M5
- Bag of 20 clamps according to the diameter (#6, #10, #12)
- Bag of 10 clamps according to the diameter (#18, #22, #25, #30)
- Clamp material: Galvanized steel
- Caoutchouc: EPDM

## PIPE CLAMP BOLT



# Parts	Length	Diam.	unit	Group
EG20.BL.M5.12	12mm	M5	ea.	100
EG20.BL.M5.16	16mm	M5	ea.	100

- Material: Galvanized steel

## STRONG PIPE CLAMPS



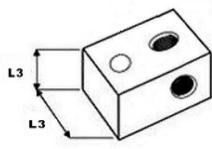
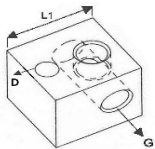
# Parts	Size / number	unit	Group
EG20.CT.12.00	CAT 1/2"	ea.	100
EG20.CT.34.00	CAT 3/4"	ea.	100
EG20.CT.58.00	CAT 5/8"	ea.	100
EG20.CT.01.00	CAT 1"	ea.	100

- Material: Galvanized steel
- Mounting hole diameter: 3/8 "



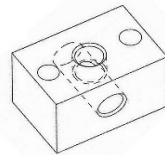
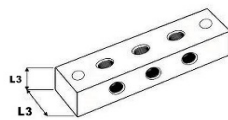
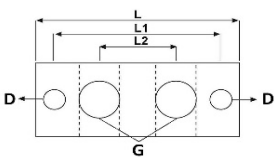
# Parts	Size / number	unit	Group
EG20.MC.086.091	Maxi clamp 086-091	ea.	100
EG20.MC.092.097	Maxi clamp 092-097	ea.	100
EG20.MC.098.103	Maxi clamp 098-103	ea.	100
EG20.MC.104.112	Maxi clamp 104-112	ea.	100
EG20.MC.140.148	Maxi clamp 140-148	ea.	100
EG20.MC.149.161	Maxi clamp 149-161	ea.	100
EG20.MC.162.174	Maxi clamp 162-174	ea.	100

## JUNCTION BLOCK



# Parts	Connection	G	L	L1	L3	D	unit	Group
EG25.00.M10.01	1	M10x1	30		25		ea.	100

- 1 fixing hole
- Material: Galvanized steel

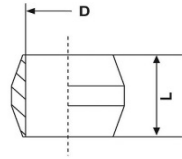


# Parts	Connection	G	L	L1	L3	D	unit	Group
EG25.00.M10.02	2	M10x2	60	50	25	6.5	ea.	100
EG25.00.M10.03	3	M10x3	84	74	25	6.5	ea.	100
EG25.00.M10.04	4	M10x4	106	96	25	6.5	ea.	100
EG25.00.M10.05	5	M10x5	128	118	25	6.5	ea.	100
EG25.00.M10.06	6	M10x6	150	140	25	6.5	ea.	100
EG25.00.M10.08	8	M10x8	194	184	25	6.5	ea.	100

- 2 fixing holes
- Material: Galvanized steel



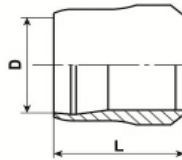
## DOUBLE SIDED COMPRESSION RING



# Parts	D	L	unit	Group
EG30.DB.06.00	6mm	7	ea.	100

• Material: Brass

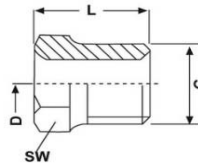
## SINGLE SIDED COMPRESSION RING



# Parts	D	L	unit	Group
EG30.SP.06.L2	6mm LL	7	ea.	100
EG30.SP.08.L1	8mm L	9.48	ea.	100
EG30.SP.08.L2	8mm LL	7.35	ea.	100

• Material: Galvanized steel

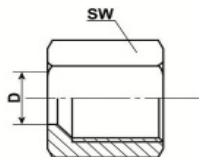
## CAP SCREW



# Parts	G	D	SW- L	unit	Group
EG35.00.06.00	M10	6mm LL	10-14	ea.	100

• Material: Galvanized steel

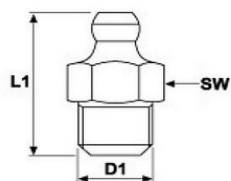
## NUT



# Parts	D	SW	unit	Group
EG40.00.06.L2	6mm LL	12	ea.	100
EG40.00.08.L2	8mm LL	14	ea.	100

• Material: Galvanized steel

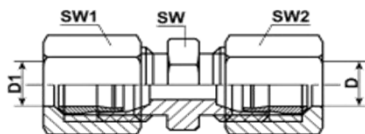
## HIGH PRESSURE GREASE NIPPLE



# Parts	D1	L	SW	unit	Group
EG45.00.18.HP	M10	20.7	11	ea.	100

• Material: Galvanized steel

## COMPRESSION UNION



# Parts	D	D1	SW	SW1	SW2	unit	Group
EG50.00.06.L2	6mm LL	6mm LL	11	12	12	ea.	100
EG50.00.08.L2	8mm LL	8mm LL	12	14	14	ea.	100

• Material: Galvanized steel

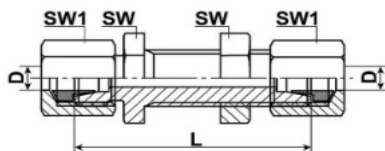
## UNION



# Parts	D	d	unit	Group
EG53.02.18.18	F (1/8")	F (1/8")	ea.	100
EG53.03.14.14	F (1/4")	M (1/4")	ea.	100
XEG53.02.14.14	F (1/4")	F (1/4")	ea.	100
XEG53.01.14.14	M (1/4")	M (1/4")	ea.	100
XEG53.01.14.12	M (1/4")	M (1/2")	ea.	100
XEG53.01.14.38	M (1/4")	M (3/8")	ea.	100
XEG53.01.38.12	M (3/8")	M (1/2")	ea.	100

• Material: Galvanized steel

## UNION (Bulkhead)

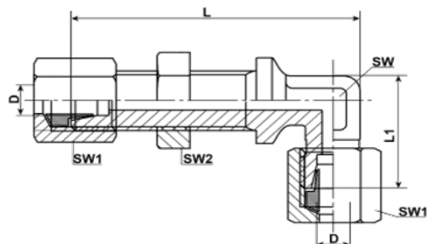


# Parts	D	D1	SW	SW1	L	unit	Group
XEG55.00.06.L1	6mm L	6mm L	17	14	48	ea.	100
XEG55.00.08.L1	8mm L	8mm L	19	17	49	ea.	100

• Material: Galvanized steel



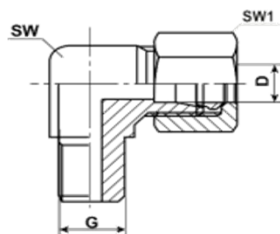
## UNION 90° (Bulkhead)



# Parts	D	SW	SW1	SW2	L	L1	unit	Group
XEG55.90.06.L1	6mm L	12	14	17	48	19	ea.	100

• Material: Galvanized steel

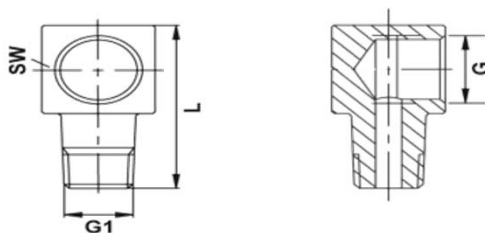
## COMPRESSION ELBOW



# Parts	D	G	SW	SW1	Series	unit	Group
EG60.M6.06.L2	6mm LL	M6	11	12	LL	ea.	100
EG60.M8.06.L2	6mm LL	M8	11	12	LL	ea.	100
EG60.M10.06.L2	6mm LL	M10	11	12	LL	ea.	100
EG60.M10.08.L2	8mm LL	M10	12	14	LL	ea.	100

• Material: Galvanized steel

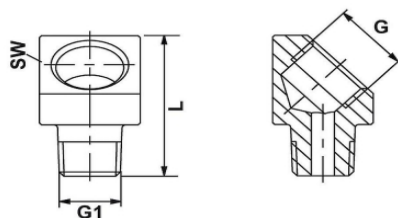
## ELBOW 90°



# Parts	G	G1	L	SW	unit	Group
EG63.03.M8.M8	F (M8)	M (M8)	23	12	ea.	100
EG63.03.M6.M10	F (M10)	M (M6)	23	13	ea.	100
EG63.03.M10.M8	F (M8)	M (M10)	23	12	ea.	100
EG63.03.M8.M10	F (M10)	M (M8)	23	13	ea.	100
EG63.03.M10.M10	F (M10)	M (M10)	23	13	ea.	100

• Material: Galvanized steel

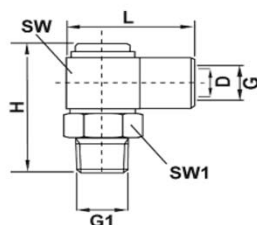
## ELBOW 45°



# Parts	G	G1	L	SW	unit	Group
EG64.03.M8.M8	F (M8)	M (M8)	23	13	ea.	100
EG64.03.M10.M8	F (M8)	M (M10)	23	13	ea.	100
EG64.03.M10.M10	F (M10)	M (M10)	23	13	ea.	100

• Material: Galvanized steel

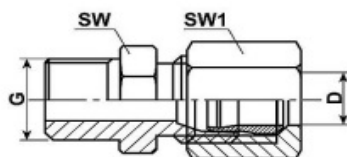
## SWIVEL COUPLING 90°



# Parts	D	G	G1	SW - SW1	H	L	unit	Group
EG68.M6.06.00	6mm	M10	M6	15-14	30	29	ea.	100
EG68.M8.06.00	6mm	M10	M8	15-14	30	29	ea.	100
EG68.M10.06.00	6mm	M10	M10	15-14	30	29	ea.	100

• Material: Galvanized steel

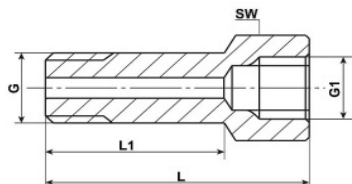
## COMPRESSION STRAIGHT FITTING



# Parts	D	G	SW	SW1	Series	unit	Group
EG70.M6.06.L2	6mm	M6	11	12	LL	ea.	100
EG70.M8.06.L2	6mm	M8	11	12	LL	ea.	100
EG70.M10.06.L2	6mm	M10	11	12	LL	ea.	100
EG70.M10.08.L2	8mm	M10	14	14	LL	ea.	100

• Material: Galvanized steel

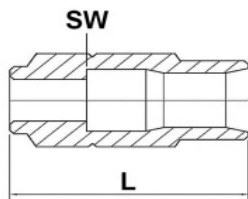
## EXTENSION COUPLING



# Parts	G	G1	L	L1	SW	unit	Group
EG75.03.18.M8	M (M8)	F (M10)	18mm			ea.	100
EG75.03.18.M6	M (M6)	F (M10)	18mm			ea.	100
EG75.03.18.M10	M (M10)	F (M10)	18mm	7	13	ea.	100
EG75.03.35.M10	M (M10)	F (M10)	35mm	24	13	ea.	100
EG75.03.50.M10	M (M10)	F (M10)	50mm	39	13	ea.	100
EG75.03.75.M10	M (M10)	F (M10)	75mm			ea.	100

• Material: Galvanized steel

## SOCKET



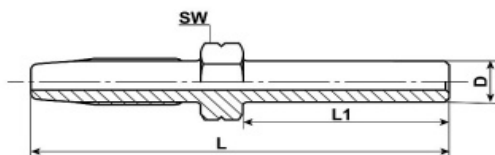
# Parts	D	L	SW	unit	Group
EG80.00.06.00	6mm*	28	12	ea.	100
EG80.00.08.00	8mm**	35.8	17	ea.	100

\* Compatible with 6mm compression fittings

\*\* Compatible with 8mm compression fittings

• Material: Galvanized steel

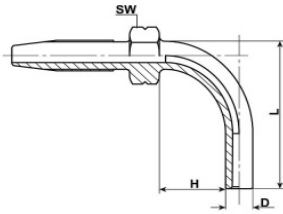
## STRAIGHT ADAPTOR FOR SOCKET



# Parts	Description	Hose	D	L	L1	SW	Unit	Group
EG85.00.06.00	Short	4.1 x 8.75	6mm	61	30	10	ea.	100
EG85.00.08.00	Long	6.35 x 11.3	8mm	65.5	22	12	ea.	100
EG86.00.08.06	Reducer	6.35 x 11.3	6mm	65.5	22	12	ea.	100

• Material: Galvanized steel

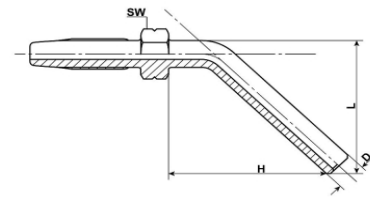
## 90° ADAPTOR FOR SOCKET



# Parts	Description	Boyaux	D	H	L	SW	Unit	Group
EG85.90.06.00	Short	4.1 x 8.75	6mm	17	28	10	ea.	100
EG85.90.06.01	Long	4.1 x 8.75	6mm	28	53	10	ea.	100
EG85.90.08.00	Short	6.35 x 11.3	8mm	23	36	12	ea.	100
EG86.90.08.06	Reducer 6mm	6.35 x 11.3	6mm	22	45	12	ea.	100

• Material: Galvanized steel

## 45° ADAPTOR FOR SOCKET



# Parts	Description	Hose	D	H	L	SW	Unit	Group
EG85.45.06.00	Short	4.1 x 8.75	6	24	15	10	ea.	100

• Material: Galvanized steel

## TEE



# Parts	1	2	3	unit	Group
EG92.03.18.18	M (1/8" NPT)	F (1/8" NPT)	F (1/8" NPT)	ea.	100
EG92.02.18.18	F (1/8" NPT)	F (1/8" NPT)	F (1/8" NPT)	ea.	100

• Material: Brass

REDUCER

# Parts	1	2	unit	Group
XEG90.02.14.18	F (1/4") NPT	F (1/8") NPT	ea.	100
EG90.03.14.18	M (1/4") NPT	F (1/8") NPT	ea.	100
XEG90.03.18.14	M (1/8") NPT	F (1/4") NPT	ea.	100

• Material: Galvanized steel

REPAIR KIT

Each repair kit is custom made to the equipment to be lubricated. The code simply specifies the size (the case used).  
Contact your sales representative for a customized repair kit.

# Parts	Description	unit	Group
EGKT.01.00.00	Standard repair kit (Plastic box)	ea.	100
EGKT.02.00.00	Big repair kit (metal box)	ea.	100

