ALLFETT®

CENTRAL LUBRICATION SYSTEMS & EQUIPMENT

## MONOBLOCK TYPE PROGRESSIVE DISTRIBUTOR

# INSTRUCTION AND USER MANUAL

04.2018

VERSION 1.00

## INTRODUCTION

All industrial machinery, equipment and vehicles are working under abrasive operating conditions. The wear between frictional parts became the most highest level at these conditions. Machinery exposed bad weather, dust, dirt, rain, snow and heavy weight in most cases. Consequently unwanted breakdowns occur and by that way productivity loss is inevitable.

Using automatic lubrication system, only increase your profitability. ALLFETT completely take over the work load spend on lubrication with a system which is bringing to gather a pump, control unit, distributor, tubes and couplings. Lubrication work is done by ALLFETT AUTOMATIC lubrication systems in efficient time of machinery or vehicle which is while operating.

Lubrication is important for all frictional parts but using correct lubrication system and method only protect parts from wearing for a long time. Feeding lubrication points with correct dosage of lubricant at certain intervals while machinery is operating provides lubricant film in place longer between parts. By ALLFETT lubrication systems life time of parts on your machinery and vehicles will be increased.

## ABOUT PRODUCER

With over 25 years experience of manufacturing AUTOMATIC Lubrication Systems ALLFETT is able to provide a wide professional approach to select the correct AUTOMATIC Lubrication System for industry and heavy machinery.

A highly accurate manufacturing process is involved in producing AUTOMATIC Lubrication Systems in order that systems meet the very tight quality procedures and state of the art processes are employed. ALLFETT is among the few companies whose products meet the exact technical and quality standards for a correct central lubrication. We present our high quality and advanced product design concept to our worldwide customers through our strong brand.

ALLFETT creates new opportunities and innovative solutions. As a result of the satisfaction of our customers with our good quality lubrication systems we are continuing in growing in the local and international market and became one of the successful companies in the field.

## CONTENTS

## LUBRICANT INFORMATION

Information about grease type to be used in the automatic lubrication system and important issues are explained in this section.

Another important feature of automatic central lubrication systems is to prevent the environment from being contaminated with grease by sending required amount of grease to the lubrication points. By using the amount of grease you need, besides protecting your machine, you are also contributing to protecting your environment.

Operating temperature around the equipment influences the grease penetration and viscosity value used in the automatic lubrication system. These values change as the environment temperature decreases and the ability to pumping in the system became hard.

## LUBRICANT TYPE

Progressive distributors are designed to use with grease. NLGI class which should be used in lubrication system is described below. Depending on the thickness of grease, NLGI grades should be changed to suit weather, lubrication line distances and ambient temperatures.

| | | |
|---|---|---|
| **NLGI 00** | operating temperature | between -30°C and -10°C |
| **NLGI 0** | operating temperature | between -10°C and 0°C |
| **NLGI 1** | operating temperature | between 0°C and 10°C |
| **NLGI 2** | operating temperature | between 10°C and 30°C |
| **NLGI 3** | operating temperature | 30°C and up |

**Lubricant will be used in the system must be LITHIUM based and EP additive.**

**Lubricant will be used in the system must certainly be clean and any foreign materials must not enter while filling.**

**Keep in mind that the substances of any lubricant are harmful to environment. Their transport and storage require that special safety measures be taken.**

**Do not use rubber based grease in system.**
**Do not use grease types with graphite in system.**
**Do not use grease types with lithium complex**

## PRODUCT DESCRIPTION

This distributor type is designed in monoblock 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 monoblock type progressive distributors. This coupling helps any distributor outlet to be blocked. By blocking an outlet, the next outlet receive double amount of grease. Also this outlet coupling has check-valve option.

Lubrication system monitoring can be done by visual or digital indicators connected on distributor block. Pin movement, which represents lubrication flow, can be seen by eye on visual indicator. Digital sensors are produced with NpN or PnP option.

## GENERAL SPECIFICATIONS

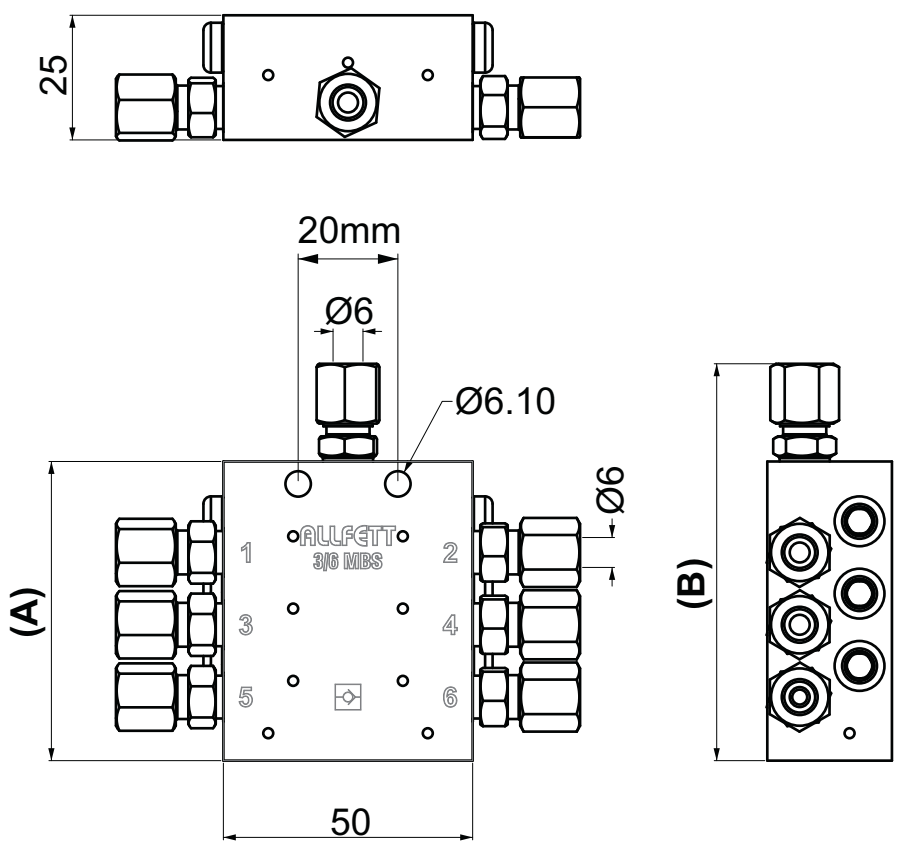
| | | |
|---|---|---|
| **Operating pressure - (Max.)** | : | 400 bar. |
| **Operating pressure - (Min.)** | : | 6 bar. |
| **Grease type** | : | NLGI - 00, 0, 1, 2, 3 |
| **Operation temperatures** | : | -40°C +80°C |
| **Distributor outlet threads** | : | M10x1 - special type coupling |
| **Distributor inlet thread** | : | M10x1 - Ø6, Ø8 or Ø10mm couplings can be installed. |
| **Piston diameter / stroke** | : | 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.**

## GENERAL DIMENSIONS

The picture shown below represents the 6-output version of the monoblock distributor. Overall measurements are shown on the picture. The block size and the total length vary in proportion to the number of the output. For this reason, follow the measurement values (**A**) and (**B**) indicated on the technical drawing from the following dimension chart.

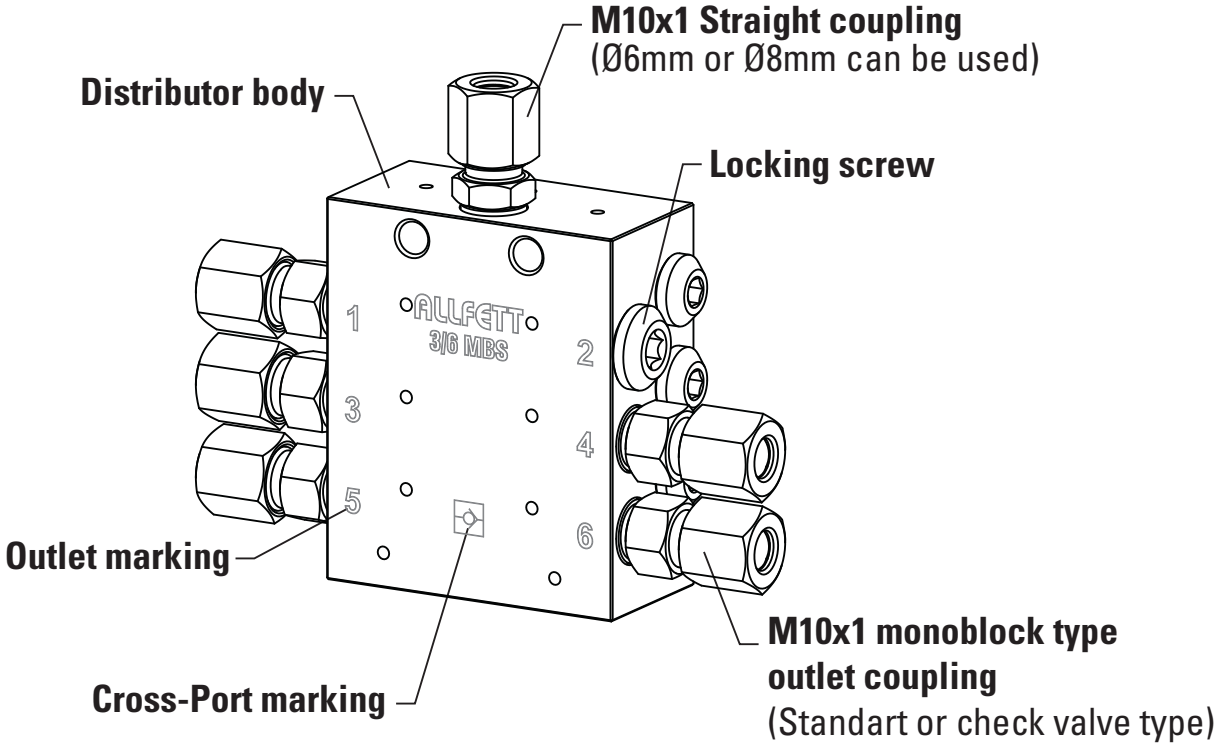
**FIGURE - 1**

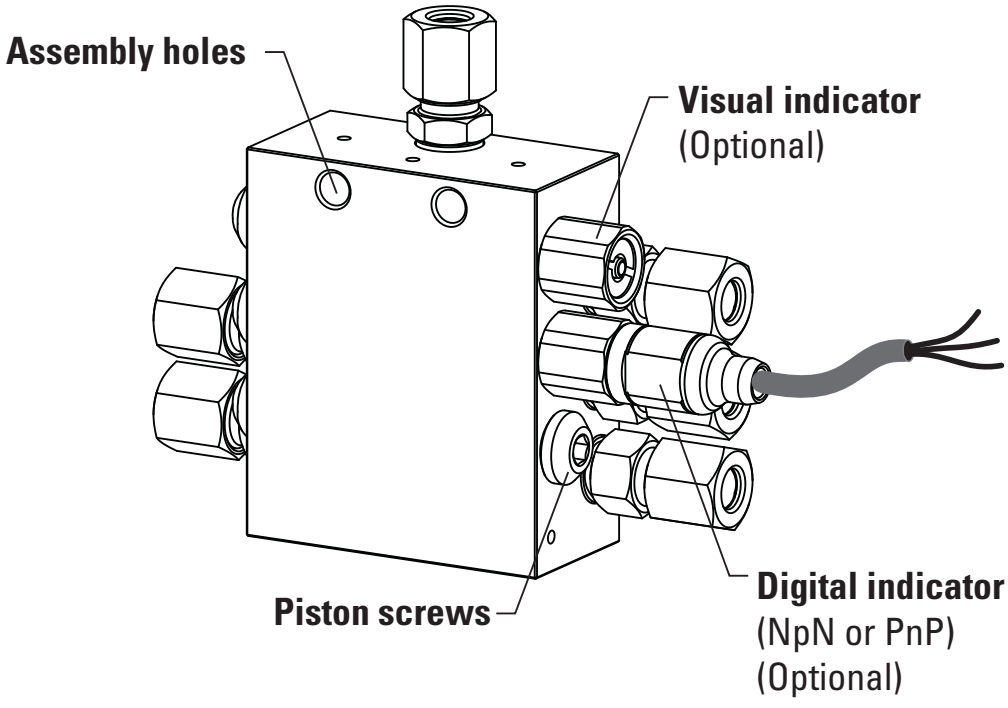



| DIMENSION CHART | (A) | (B) |
|---|---|---|
| **6** outlets | 60mm | 80mm |
| **8** outlets | 74,5mm | 94,5mm |
| **10** outlets | 89mm | 109mm |
| **12** outlets | 103,5mm | 123,5mm |
| **14** outlets | 118mm | 138mm |
| **16** outlets | 132,5mm | 152,5mm |
| **18** outlets | 147mm | 167mm |
| **20** outlets | 161,5mm | 181,5mm |

## PRODUCT COMPONENTS

The picture shown below represents the 6-output version of the monoblock distributor. Distributor type with more outlet option has same components.



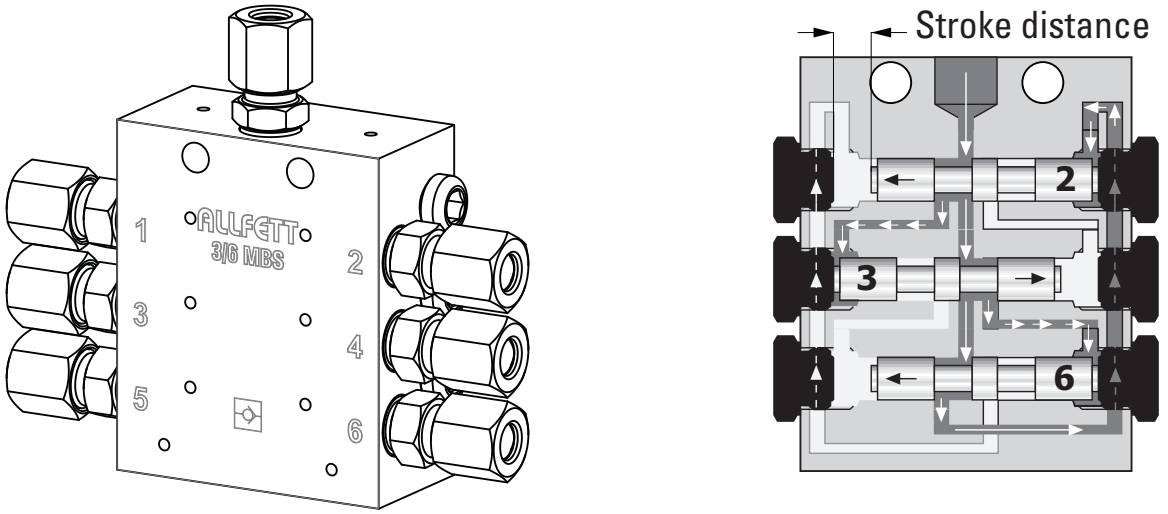



## FUNCTIONAL DESCRIPTION

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.

**FIGURE-2** **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.

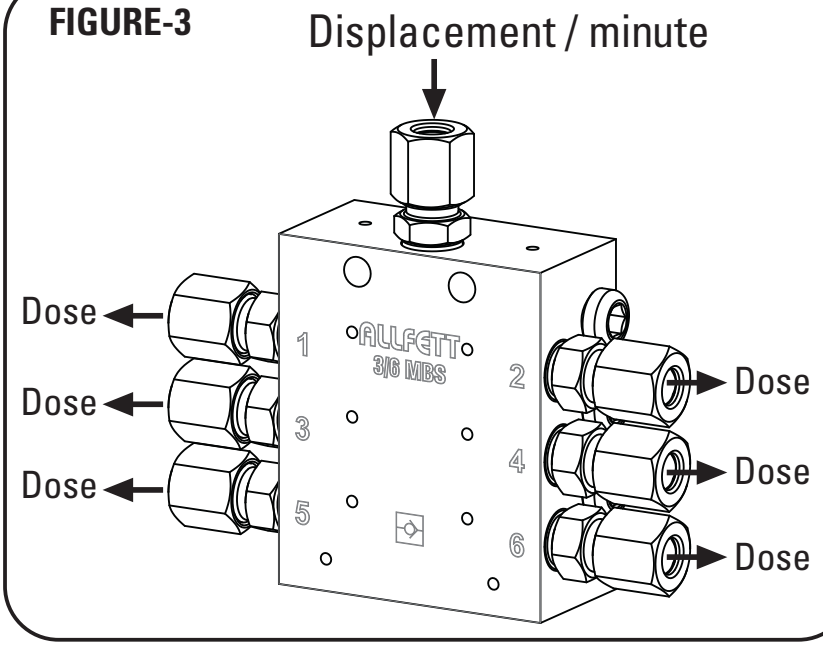
Lubrication system operation can be monitored by visual or digital indicators connected to distributor block.

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

## DOSE ADJUSTMENT INFORMATION

Monoblock 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.

**FIGURE-3**

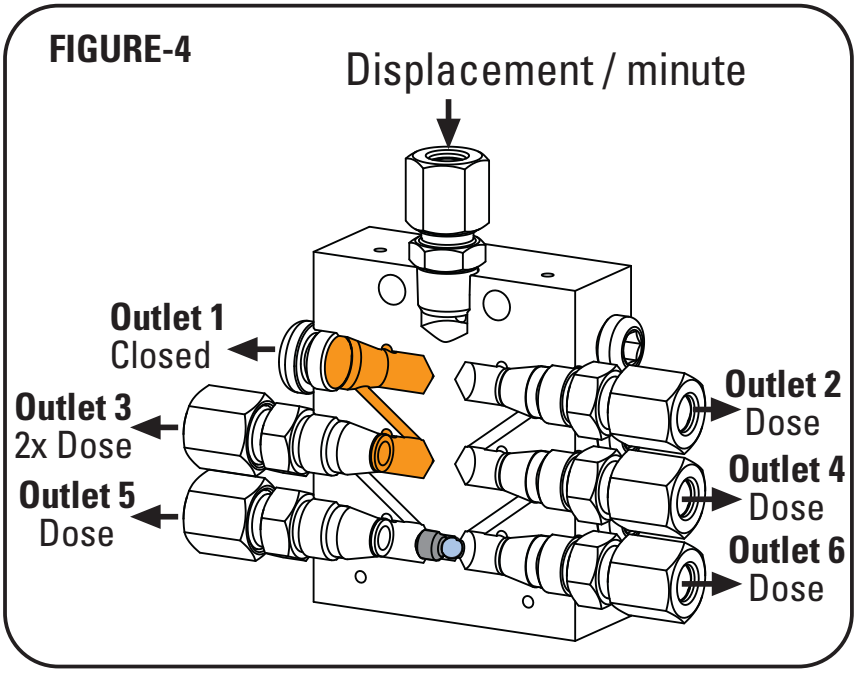



### STANDARD DOSAGE

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.

**FIGURE-4**

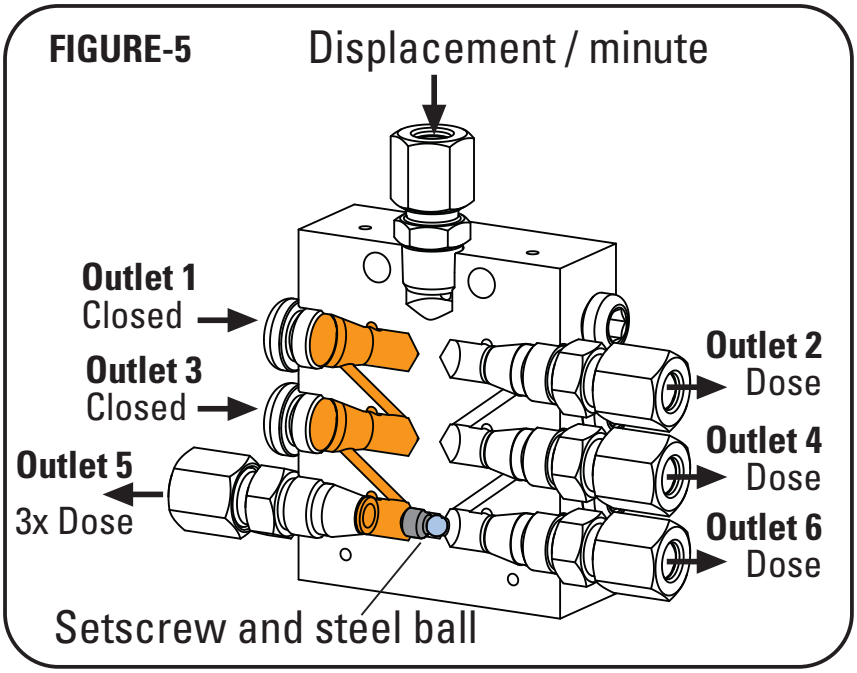



### DOSE AMOUNT WHEN SINGLE OUTLET IS CLOSED.

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.

**FIGURE-5**



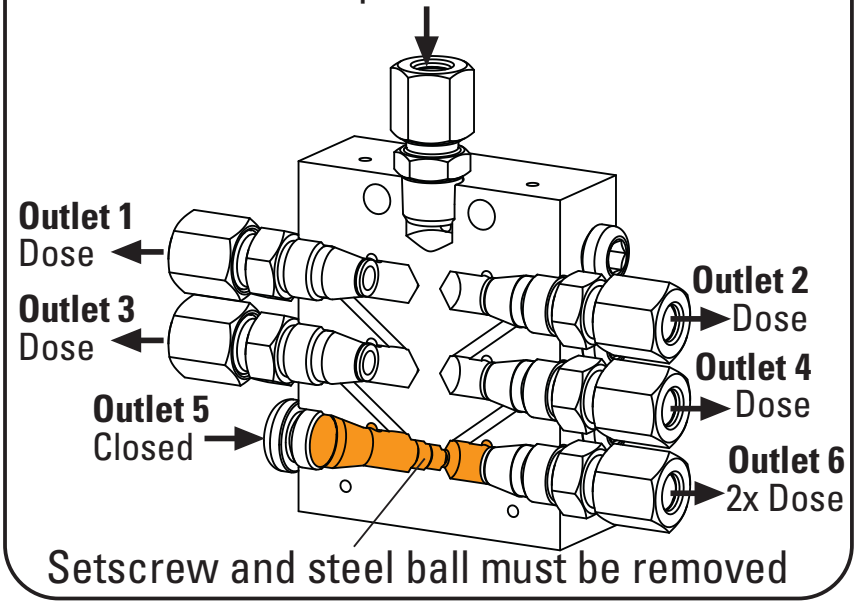

## DOSE AMOUNT WHEN MULTIPLE OUTLETS ARE CLOSED

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.

**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.**

**FIGURE-6**




## CLOSING ONLY UNDERMOST OUTLETS

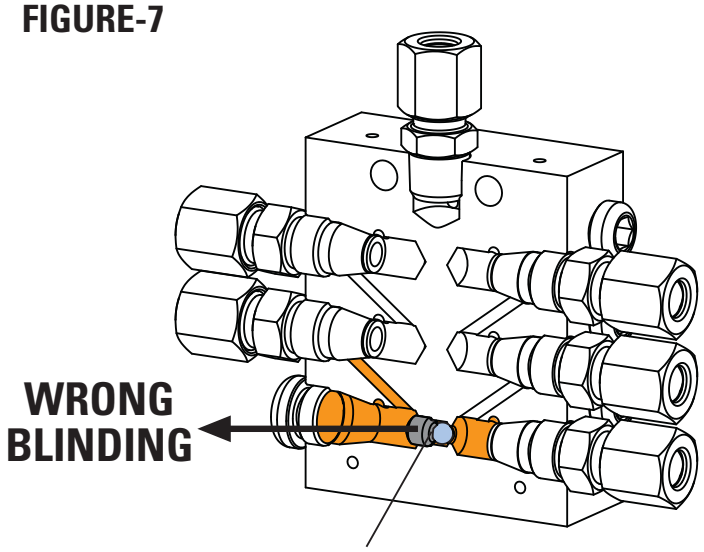
If one of the undermost outlets will be closed, setscrew and steel ball **(Figure-5)** inside outlet must be removed. This way grease can cross to other side of distributor block.

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

**Pistons inside monoblock type distributors are produced in standard diameter. 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

**FIGURE-7**



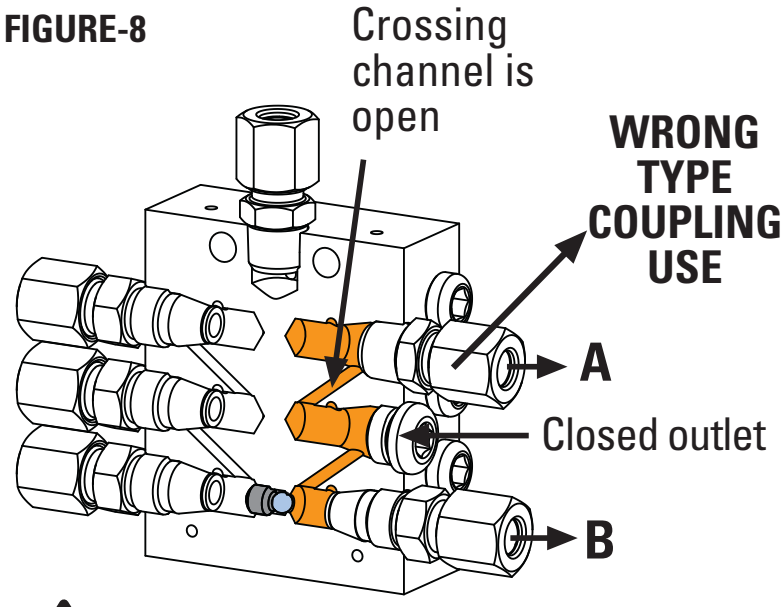

Setscrew and steel ball must be removed

### 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.

**FIGURE-8**




**It is uncertain which way grease came out (outlet A or B)**

### USING WRONG TYPE COUPLING

Special outlet coupling must be used on monoblock 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.

**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.**

## DISTRIBUTOR INSTALLATION

Important points to be considered before and during of distributor block are explained below. It is important that necessary precautions have been taken during assembly.

**It is important to choose a covered position where distributor block will be least effected from external factors.**

**1.** Thread measurements of lubrication points must be determined before installation. Couplings will be chosen by this measurement.

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

**3.** Flexible hoses, where installed moving parts, should be connected by leaving enough distance for movement. By this way it is prevent lubrication lines to be damaged.

**4.** High pressure tubes or steel tubes can be used when high pressure is required. High pressure tubes are flexible and can be used on moving parts. Steel tube is not flexible but has more impact resistance.

**Steel tube diameter can be shrink by impact from outside. If lubricant flow can't reach distributor block, steel tubes should be checked for any damage.**

**5.** After installation complete, main line and lubrication lines should be filled by manual pump or air operated pump. Pump must be operated after seen all lubrication lines are getting grease.

**Before first use of system, air in lines must be taken out by filling them with grease.**

# DISTRIBUTOR MAINTENANCE INSTRUCTIONS

## 1. CHECKING PUMP

Progressive distributor blocks operate while electrical grease pump is in operation. When a problem occur, electrical grease pump firstly checked that the grease is coming out from pump element outlet. If you make sure that grease is coming from pump element outlet next step must be checked in order.

## 2. CHECKING LUBRICATION LINES AND COUPLINGS

Any brake off or crushing on lubrication lines between pump and distributors cause leakage. Progressive distributor block will not operate if there is a leakage on the main line its connected. To diagnosing the problem correctly, all lubrication lines connected to distributors must be checked for leakage, brake off and damages.

## 3. USING INAPPROPRIATE GREASE

Pump in the system must be filled with grease which appropriate NLGI class and specifications. High viscosity class grease types even comes out from pump element but loose too much pressure in tubes and cannot reach to the distributors. Environmental temperature may inappropriate for NLGI class used. Also grease specifications should be compatible with the explanation on **PAGE-3.**

If NLGI class or substance of grease used in system is inappropriate ;

**The grease inside system must completely be removed and filled with recommended grease with appropriate properties. Please see PAGE-3 for detailed information.**

## 4. INCORRECT INSTALLATION

The length and diameters of the tubes between pump, distributors and lubrication points must be installed by considering the pressure loose chart explained in page 14.

- If tube inside diameter is small and length is too long, the grease inside that tube will not reach to distributor.
- If tube is bended too much for different angels and going up, the grease inside that tube will not reach to distributor.

- Lubrication system lines must be checked for improper installations.

# DISTRIBUTOR MAINTENANCE INSTRUCTIONS

## 5. INSPECTING BLOCKED LUBRICATION POINT

Remove the inlet connection tube from distributor. Send grease to distributor by using hand pump. If using hand pump to send grease is difficult or not even possible ;

Remove one of the outlets from distributor. Try to use hand pump to send grease to distributor. If using hand pump to send grease is still difficult or not even possible, remove another outlet tube from distributor and try to pump again. Repeat this step for each outlet until finding blocked outlet.

When blocked lubrication line is removed from distributor, sending grease by hand pump gets easy. Lubricant coming should be seen from distributor outlets. Blocked lubrication point is found. Clear the blockage from lubrication point

**Blocked lubrication point indicator is optional. Each outlet equipped with blockage indicator allows user to determine which lubrication point is blocked easily. With this equipment, progressive distributor continues to operate if there is a blockage.**

## 6. CLEARING BLOCKAGE ON DISTRIBUTOR

Remove the inlet and all outlet connections from distributor. Send grease to distributor by using hand pump. If using hand pump to send grease is difficult or not even not possible that means distributor is blocked due to small particles in lubricant.

**Lubricant will be used in the system must certainly be clean and any foreign materials must not enter while filling.**

**Do not use rubber based grease in system.**
**Do not use grease types with graphite in system.**
**Do not use grease types with lithium complex**

Distributor parts must be disassembled to clear blockage. All parts disconnected carefully and cleaned by a diesel based fluid. Each part must be assembled again to its own position. It is important that each piston inside a distributor must be assembled to its own hole even if they are same dimension. After cleaning and assembling again, sending grease to distributor block should be easy and grease is coming from its outlets.

**Clering blockage on distributor must be done in clean environment.**
**Do not use water for cleaning distributor. Only diesel based fluids must be used.**

# DISTRIBUTOR MAINTENANCE INSTRUCTIONS

Pressure loss chart below should be examined in order to avoid faulty installation of system. Lubrication line diameters and their distances should be determined by environment temperature and NLGI class factors according to this table.

## PRESSURE LOSS CHART

Loosing pressure in lubrication lines depends on different variables. The most important variables are pump displacement, environmental temperatures, tube diameter and NLGI class. Each variable must be considered for correct lubrication.

The chart below represents the approximate pressure loose in tube which 1 meter long. Results are varies according to pump element displacement volume created by single or multiple pump elements. Result values are defined in bar.

| TUBE DIAMETER | GREASE CLASS | Single pump element 2,5 $cm^3$ / minute | | | | | 3 pump elements 7,5 $cm^3$ / minute | | | | | 6 pump elements 15 $cm^3$ / minute | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | -10°C | 0°C | 10°C | 20°C | 30°C | -10°C | 0°C | 10°C | 20°C | 30°C | -10°C | 0°C | 10°C | 20°C | 30°C |
| Ø6 x 1 (Ø4mm) | NLGI 0 | 4,8 | 2,6 | 1,4 | 0,78 | 0,48 | 7,8 | 4,2 | 2,4 | 1,44 | 0,84 | 9,6 | 5,1 | 3 | 1,8 | 1,14 |
| | NLGI 1 | 8 | 4,4 | 2,4 | 1,3 | 0,8 | 13 | 7 | 4 | 2,4 | 1,4 | 16 | 8,5 | 5 | 3 | 1,9 |
| | NLGI 2 | 12,8 | 7 | 3,8 | 2 | 1,28 | 20,8 | 11,2 | 6,4 | 3,84 | 2,24 | 25,6 | 13,6 | 8 | 4,8 | 3 |
| Ø8 x 1 (Ø6mm) | NLGI 0 | 2,7 | 1,32 | 0,72 | 0,42 | 0,24 | 3,9 | 2,1 | 1,14 | 0,66 | 0,42 | 4,8 | 2,7 | 1,56 | 0,9 | 0,54 |
| | NLGI 1 | 4,5 | 2,2 | 1,2 | 0,7 | 0,4 | 6,5 | 3,5 | 1,9 | 1,1 | 0,7 | 8 | 4,6 | 2,6 | 1,5 | 0,9 |
| | NLGI 2 | 7,2 | 3,52 | 1,92 | 1,12 | 0,64 | 10,4 | 5,6 | 3 | 1,76 | 1,12 | 12,8 | 7,3 | 4,16 | 2,4 | 1,44 |
| Ø10 x 1 (Ø8mm) | NLGI 0 | 1,44 | 0,72 | 0,36 | 0,21 | 0,12 | 2,16 | 1,1 | 0,6 | 0,3 | 0,18 | 2,64 | 1,8 | 0,78 | 0,42 | 0,25 |
| | NLGI 1 | 2,4 | 1,2 | 0,6 | 0,35 | 0,2 | 3,6 | 1,8 | 1 | 0,5 | 0,3 | 4,4 | 2,3 | 1,3 | 0,7 | 0,42 |
| | NLGI 2 | 3,84 | 1,92 | 0,96 | 0,56 | 0,32 | 5,76 | 2,88 | 1,6 | 0,8 | 0,48 | 7 | 3,68 | 2 | 1,12 | 0,67 |
| Ø12 x 1 (Ø10mm) | NLGI 0 | 0,96 | 0,45 | 0,22 | 0,12 | 0,06 | 1,32 | 0,66 | 0,36 | 0,18 | 0,1 | 1,62 | 0,84 | 0,45 | 0,25 | 0,15 |
| | NLGI 1 | 1,6 | 0,75 | 0,38 | 0,2 | 0,1 | 2,2 | 1,1 | 0,6 | 0,3 | 0,18 | 2,7 | 1,4 | 0,75 | 0,42 | 0,26 |
| | NLGI 2 | 2,56 | 1,2 | 0,61 | 0,32 | 0,16 | 3,52 | 1,76 | 0,96 | 0,48 | 0,29 | 4,32 | 2,24 | 1,2 | 0,67 | 0,42 |
| R 1/2 (Ø15,75mm) | NLGI 0 | 0,45 | 0,2 | 0,09 | - | - | 0,6 | 0,27 | 0,12 | 0,07 | - | 0,69 | 0,33 | 0,16 | 0,09 | - |
| | NLGI 1 | 0,75 | 0,34 | 0,16 | - | - | 1 | 0,45 | 0,2 | 0,12 | - | 1,15 | 0,55 | 0,28 | 0,16 | - |
| | NLGI 2 | 1,2 | 0,54 | 0,26 | - | - | 1,6 | 0,72 | 0,32 | 0,19 | - | 1,84 | 0,88 | 0,45 | 0,26 | - |
| R 3/4 (Ø21,25mm) | NLGI 0 | | | | | | 0,33 | 0,15 | 0,06 | - | - | 0,39 | 0,16 | 0,1 | - | - |
| | NLGI 1 | | | | | | 0,55 | 0,25 | 0,1 | - | - | 0,65 | 0,28 | 0,18 | - | - |
| | NLGI 2 | | | | | | 0,88 | 0,4 | 0,16 | - | - | 1 | 0,45 | 0,29 | - | - |
| R 1 (Ø27mm) | NLGI 0 | | | | | | | | | | | 0,24 | 0,12 | 0,09 | - | - |
| | NLGI 1 | | | | | | | | | | | 0,4 | 0,2 | 0,16 | - | - |
| | NLGI 2 | | | | | | | | | | | 0,64 | 0,32 | 0,26 | - | - |

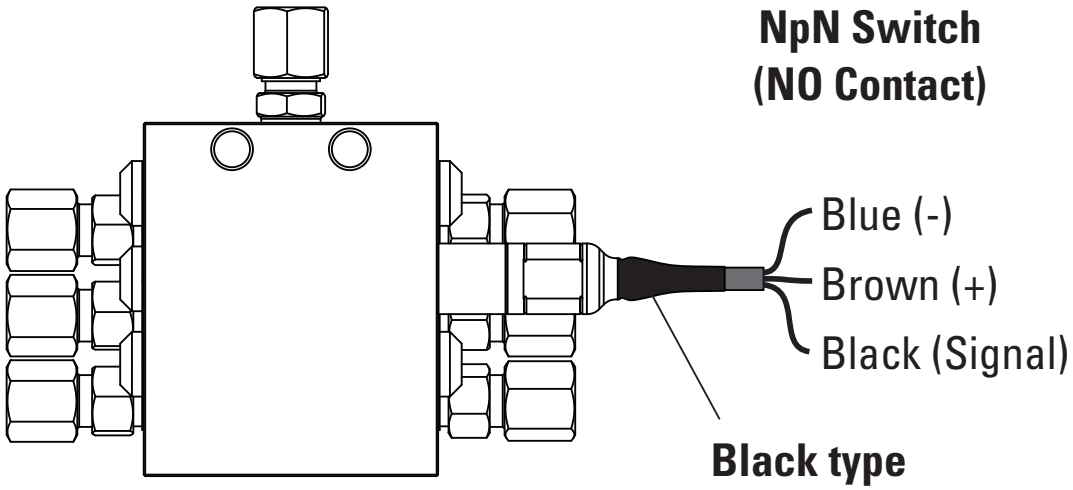
**It should not be forgotten that the grease penetration properties is variable at different environment temperatures.**

**Even in same penetration values, different brand of greases may behave differently. Because of the base oil viscosity values of grease, you may experience different results from the chart.**

## CYCLE SWITCH INSTRUCTIONS

Cycle switch is an optional component for distributor block. Lubrication system can be controlled or monitored by any distributor block equipped with cycle switch. NpN type cycle switches can be used with ALLFETT electronic control systems. PnP type switches can be used with PLC control units.

**FIGURE - 9**

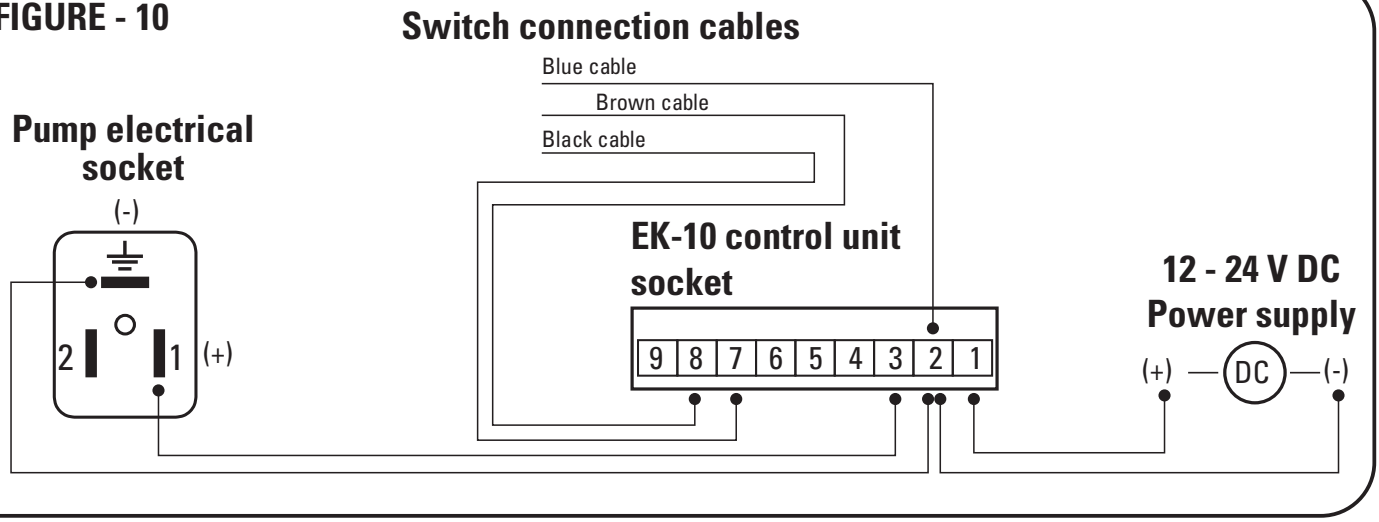



NpN type cycle switches can be controlled by ALLFETT EK-10 electronic control units. EK-10 control unit determines working time period of system by counting pulses. Cycle switch detects the movement of a piston inside distributor block and send signal to control unit. Any amount of cycle count can be programmed on to EK-10 control unit.

Cycle switches can also monitors all distributors in system. Special electrical panels can be produced optionally when necessary.

## EK-10 CONTROL UNIT CONNECTION DIAGRAM

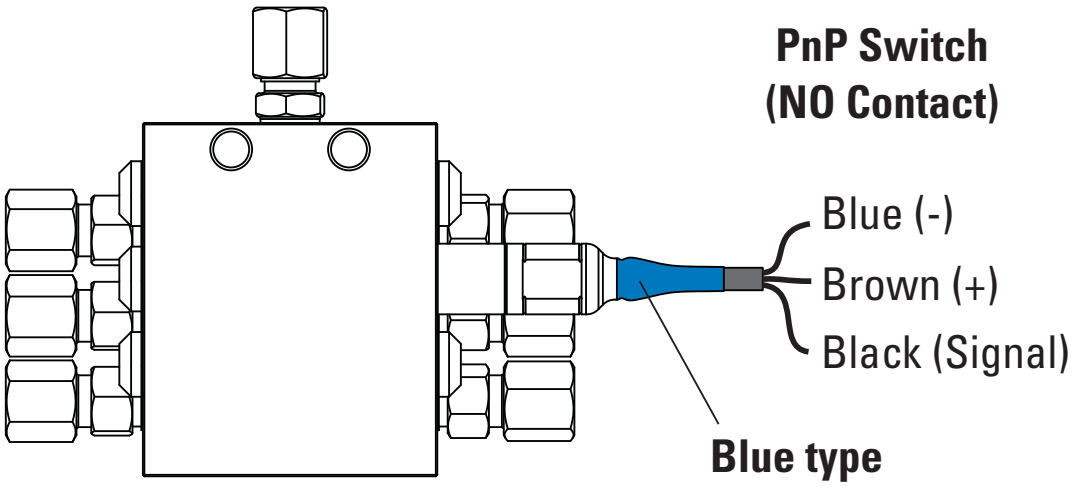
**FIGURE - 10**



## CYCLE SWITCH INSTRUCTIONS

PnP type cycle switches are produced to use with external control units such as PLC. Electrical connection should be done by using cables shown on figure below.

**FIGURE - 11**




After connecting switch to appropriate control unit, purpose of signal must be defined to control unit. This signal can be programmed for counting cycles or just monitoring lubrication.

Also there must be an alarm mode should be programmed to control unit. If switch doesn't get any signal while operating the system, there can be problems as below ;

1. Leakage on main lubrication line or couplings.
2. Broken main lubrication line.
3. Blockage on one or more lubrication points.
4. Pump reservoir may empty.
5. Air in the system.

**Programming PLC control unit is user responsibility. Please contact with service for any technical details to connecting switch.**

**Any maintenance on system under high voltage could lead to personal injury. Cut the electricity before any maintenance.**

# ORDER INFORMATION

| PRODUCT NAME | ORDER CODE |
|---|---|
| Monoblock Progressive distributor - 6outlet | 40 00 03 MB |
| Monoblock Progressive distributor - 8outlet | 40 00 04 MB |
| Monoblock Progressive distributor - 10outlet | 40 00 05 MB |
| Monoblock Progressive distributor - 12outlet | 40 00 06 MB |
| Monoblock Progressive distributor - 14outlet | 40 00 07 MB |
| Monoblock Progressive distributor - 16outlet | 40 00 08 MB |
| Monoblock Progressive distributor - 18outlet | 40 00 09 MB |
| Monoblock Progressive distributor - 20outlet | 40 00 10 MB |

**SALES**

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Telefon : 0 212 501 32 01 (PBX) www.allfett.net
Fax : 0 212 501 33 37 info@allfett.net

# RULES TO COMPLY WHILE USING AND WARRANTY CONDITIONS

**1.** Damages occur while additional transports after delivering the goods from ALLFETT to the customer DISQUALIFIES THE WARANTY

**2.** Washing of the parts with pressured water causes damage. Any damage occur from this reason DISQUALIFIES THE WARANTY.

**3.** Only proper NLGI class lubricants must be used with in system. NLGI class must be changed according to weather conditions. Use NLGI 0 for cold weather, increase the NLGI class up.

**4.** 4. Only LITHIUM based and EP additive lubricants must be used with in system.

**5.** Rubber based lubricant types must not be used in the system. Damages or faults occur from this reason DISQUALIFIES THE WARANTY.

**6.** Sticky based lubricant types must not be used in the system. Damages or faults occur from this reason DISQUALIFIES THE WARANTY.

**7.** Lubricant will be used in the system must certainly be clean and any foreign materials must not enter while filling the pump.

**8.** Any foreign materials, dirt or small particules while filling lead to system units failing and possibly property damage to equipments. Damages or faults occur from this reason DISQUALIFIES THE WARANTY.

**9.** Pump must be filled from the grease nipple. If grease level is lower than the minimum level (as you can not see grease level) grease nipple must be used to prevent air entrance inside the pomp body. Lockable filling cover option can only be used after filling pump from grease nipple up to minimum level.

**10.** If lockable filling cover will be used to fill pump, environment must be clean to avoid any foreign materials entering to reservoir. Any foreign materials, dirt or small particules while filling lead to system units failing and possibly property damage. Damages or faults occur from this reason DISQUALIFIES THE WARANTY.

**11.** Progressive distributors have pilot control system. It is necessary to use clean grease. Damages or faults occur from using dirty lubricant DISQUALIFIES THE WARANTY

**12.** Set screw and steel ball must be removed if blinding option is used at undermost outlets.

**13.** Monoblock type distributors has special type of couplings on outlet. It is necessary to use these couplings. If special type coupling is not used, distributor block doesn?t operate properly. Any damage to machinary from this reason treated as a user fault.

## RULES TO COMPLY WHILE USING AND WARRANTY CONDITIONS

**14.** Distance between lubrication point and distributor block must be maximum 2 meters long. But if more distance needed, check-valve must be used on all distributor outlets up to 5 meters distance. Do not install distributor block longer than 5 meters distance.

**15.** Moving sections of equipment must be considered before installation. Any moving parts must be feeded by flexible hose types and swivel couplings. Also tube length must be long enough to handle movement. Any stationary lubrication points can be feeded by steel tubes.

**16.** If the pump works without lubricant, pump elements will send air to the points instead of grease. Because of that any points connected to pump will not get any lubricant. Damages on pump and on the system coming from that reason DISQUALIFIES THE WARANTY.

**17.** Disassembling or loosing any part while pump working is prohibited. Any damage coming from this reason DISQUALIFIES THE WARANTY. Also any personal injury occur from this reason ALLFETT does not accept responsibility.

**18.** Another goal of Centralized Lubrication Systems is to protect environment. So it is adviced to fill grease to the systems by mobile or hand pumps.

**19.** Unouthorized modifications to the units and the use of unouthorized spare parts and aids prohobited and DISQUALIFIES THE WARANTY. Only maintenance may apply descibed in PAGE 12 - 13 and 14. ALLFETT Technical Service must be informed to any other possible troubles and necessary procedures must be performed.

**20.** ALLFETT Mekanik ve Elektronik Sistemler SAN. TIC. LTD. STI and ALLFETT Pazarlama ve Dis Ticaret LTD. STI. does not accept responsibility for damages described in items above on equipments which ALLFETT systems are installed.

**QUALITY SYSTEM**

ISO 9001
BUREAU VERITAS
Certification

This product is produced by ALLFETT Mekanik ve Elektronik Sistemler San. Tic. Ltd. Sti. company, which, is certificated by Bureau Veritas with certificate to compatible for ISO 9001:2015 standard and owner of the quality management system.

## WARRANTY

Utilisation of this warranty certificate has been permitted by The Republic of Turkey, The Ministry of Industrial and Commerce, The general Administration of Protection of Consumer Right and Competition, in accordance with the law numbered 4077 .

### PRODUCER COMPANY

| | |
|---|---|
| NAME | : ALLFETT Mekanik ve Elektronik Sistemler San. ve Tic. Ltd. Şti. |
| CENTRAL ADRESS | : Topçular mahallesi, Topcular Cad. No:1/1 Demirkapı-Rami / İstanbul |
| TELEPHONE | : 0212 501 32 01 (PBX) |
| FAX | : 0212 501 33 37 |

### AUTHORISED PERSON

SIGNATURE - STAMP : :

### PRODUCT

| | | |
|---|---|---|
| TYPE | : | Grease distributor |
| BRAND | : | ALLFETT |
| MODEL | : | Monoblock ☐ |
| SERIAL NUMBER | : | ..... |
| DELIVERY DATE / PLACE | : | ..... |
| WARRANTY | : | 2 years |
| REPAIR TIME | : | 30 days |

### SALER COMPANY

| | | |
|---|---|---|
| NAME | : | ..... |
| CENTRAL ADRESS | : | ..... |
| TELEPHONE | : | ..... |
| FAX | : | ..... |
| BILL DATE / NUMBER | : | ..... |

## WARRANTY CONDITIONS

1. The warranty period is two years from the date of delivery.
2. The product including all its components is under the warranty of our company.
3. In case of defects within the warranty period the period spent in repairing is added to the warranty period. The repairing period is maximum 30 days. This period starts from the date of delivery of the product to the services centers or to the seller, the agency the representative, the importer or the manufacturer of the product respectively, in case there are service centers.
4. In case the product has material, workmanship or manufacturing defects, the product will be repaired free of charge and expenses of any sort including labor, the value of the parts replaced or any our charges.
5. The product will be replaced free of charge;
   - If the product permanently disfunctions due to repeating the same defect more than four times within the warranty period
   - If the maximum period for repairing is exceeded.
   - If it is determined that the defect cannot be repaired by report written by the service, or in the absence of service centers, by the seller, agency, representative, importer or manufacturer of the product respectively.
6. The present warranty does not cover damages resulting from importer handling by deviating from the instructions in the manual.
7. General administration of protection of consumer rights and competition in the ministry of industry and commorce may be applied for problems concerning the warranty certificate.

## TRANSPORT AND STORAGE

There are no restrictions on transportation by land, air and sea. In general, products should be stored in a dry and dust-free environment. The storage temperatures are between -10°C and +40°C.

## DANGEROUS OR HARMFUL CONDITIONS TO ENVIRONMENTAL AND HUMAN HEALTH DURING USE

All ALLFETT systems are producing according to relevant provisions of security regulations. There is no risk for environmental and human health during use.

ALLFETT®

CENTRAL LUBRICATION SYSTEMS & EQUIPMENT

**ALLFETT MEKANİK VE ELEKTRONİK SİSTEMLER SAN. VE TİC. LTD. ŞTİ.**

Topçular Mahallesi, Topçular Caddesi No:1/1 - Eyüp / İstanbul

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