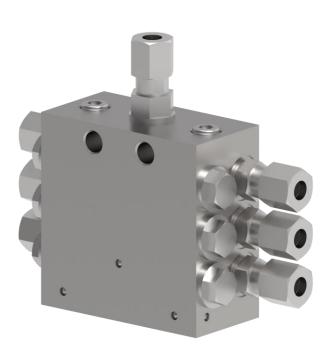
# **Instruction Manual**

Progressive Block divider

Series SSVA





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## Legal disclosure

#### Manufacturer

Lubmann GmbH Add: Kleiner Johannes 21, 91257, Pegnitz, Germany E-Mail: info@lubmann-gmbh.de Website: www.lubmann-gmbh.de

#### **Training courses**

To provide a maximum of safety and economic viability, Lubmann GmbH carries out detailed training courses. It is recommended that the training courses are attended. For more information, please contact Lubmann GmbH.

#### Copyright

© Copyright Lubmann GmbH All rights reserved.

#### Warranty and extent of warranty

Inappropriate intervention will rule out your warranty claim!

Warranty regarding operational safety, reliability and performance of the lubricating pump is only accepted by the manufacturer under the following conditions:

- Assembly, connection, setting, maintenance and repair are carried out by authorized and specialized staff.
- •The limits stipulated in the technical data must never be exceeded.
- •Only original components or components approved by the manufacturer may be used for repair and maintenance work.

All guarantees and warranties expire for damages to central lubrication systems that are caused by operation with improper lubricants (e.g., piston wear, piston jamming, plugins, embrittled sealings).

Lubmann does not assume liability on damages caused by lubricants, even if these lubricants have been tested and released by laboratory tests, as damages caused by lubricants (e.g., by expired or improper stored lubricants, batch variations etc.) can not be retraced to their root cause in retrospect.

#### Service address

Kleiner Johannes 21, 91257, Pegnitz, Germany Tel.: +49 9241 80 89 87 00

#### **Disclaimer**

The manufacturer shall not be held responsible for damages caused by:

- Non appropriate use faulty assembly, operation, setting, maintenance, repair or accidents
- Use of inappropriate lubricants
- Improper or late response to malfunctions
- Unauthorized modifications of the product
- Intent or negligence
- Use of non-original Lubmann spare parts
- Faulty planning or layout of the centralized lubrication system

Liability for loss or damage resulting from the use of our products is limited to the maximum purchase price. Liability for consequential damages of whatever kind is excluded.



The progressive piston dividers are divider devices with a hydraulic sequence control, the pistons of which are regulated by the supplied lubricant in a way that the lubricant inevitably and successively escapes at the individual outlets. In the case of malfunction during the flow of lubricant, e.g. plugging of lubricating line or lubricating points, the divider will block up.

The divider sensor are used for the monitoring of the distributors. In the case of manually operated pumps a virtually insurmountable counter pressure occurs during the blockage. In the case of automatic pumps such as e.g. the electrical pump ALP811/ALPA or ALPB the lubricant escapes at the safety valve.

The progressive SSVA dividers are manufactured in a variable chip construction, which offers the advantage that the divider can be extended or shortened at random according to the amount of lubrication points. Due to this chip construction, there is also the possibility of constructing an overall progressive divider from individual distributor disks with different outputs per piston stroke.

The difference in output per piston stroke is created by different piston diameters. To get the correct functioning of a progressive divider a minimum of three pistons, i.e., a minimum of three output elements is a must.

## Safety instructions

#### **General information**

Any safety-related faults must be eliminated without delay.

Below, please find fundamental instructions to be complied with, regarding assembly, operation and maintenance. The mechanical and the competent specialists / staff of the operating company must read the Operating Instructions on all accounts prior to starting assembly and commissioning. Moreover, the Operating Instructions must permanently be available on site.

Not only the safety instructions included under this item, but also the specific safety instructions appearing in other parts of this manual must be complied with.,

#### **Explanation of symbols**



Safety instructions which, if not complied with, may endanger persons, are marked specifically with the general hazard symbol:



This heading is used if inaccurate compliance or non-compliance with the Operating Instructions or specified work procedures etc. may result in damage



Points out Special Information



ATTENTION

## **Delivery, Returns and Storage**

#### **Delivery**

After receipt of the shipment, check the shipment for damage and completeness according to the shipping documents. Immediately report any transport damages to the forwarding agent. Keep the packaging material until any discrepancies are resolved. During in-house transport ensure safe handling.

#### Returns

Clean all parts and pack them properly (i.e., following the regulations of the recipient country) before returning them. Protect the product against mechanical influences such as impacts. There are no restrictions for land, sea or air transport.

#### **Storage**

Lubmann products are subject to the following storage conditions:

dry, dust- and vibration-free in closed premises

no corrosive, aggressive materials at the place of storage (e. g. UV rays, ozone)

protected against pests and animals (insects, rodents, etc.)

possibly in the original product packaging

shielded from nearby sources of heat and coldness

in case of high temperature fluctuations or high humidity take adequate measures (e. g. heater) to prevent the

formation of condensation water

Storage conditions for parts filled with lubricant

The conditions mentioned in the following will have to be adhered to when storing products filled with lubricant,

Storage period of up to 6 months

The filled products can be used without having to take further measures.

Step for Storage period from 6 to 18 months

Remove all connection lines and closure screws

Connect the pump which has been filled with new lubrication grease suitable for the application purpose to the divider

Let the pump run until new lubricant leaks from the divider

Remove leaked lubricant

Reinstall closure screws and connection lines



## Commissioning

Connect the pump properly to the designated connections. Check the device for functionality and the presence of safety features.

Ensure that all warning labels are present, undamaged, and clearly visible. If this not the case, they must be replaced immediately.

#### **Deviating from Intended Use is strictly Prohibited**

Please adhere to the technical specifications provided in the manual and do not exceed the specified limits. Improper use is strictly prohibited. Only use lubricants intended for this purpose. Make sure to use the product exclusively within its designated area of use.

#### **Accompanying Documents**

In addition to this manual, the following documents must be considered by the respective target audience:

1) Operational instructions and release regulations

If applicable:

- 2) Safety data sheet for the lubricant used
- 3) Project documentation
- 4) Supplementary information regarding special configurations of the pump. These can be found in the specific system documentation.
- 5) Instructions for additional components for the assembly of the central lubrication system.



## Lubricant

#### General

Lubricants are deliberately selected for their specific application. The selection is preferably made by the manufacturer or operator of the machine in collaboration with the lubricant supplier. If you have little or no experience in selecting lubricants for lubrication systems, please get in touch with us. We are ready to assist you in choosing suitable lubricants and components to build a lubrication system optimized for the particular application. Please consider the following points when selecting or using lubricants. This will help you avoid potential downtime and damage to the machine or lubrication system.

#### **Material Compatibility**

Lubricants must generally be compatible with the following materials:

- Plastics: ABS, CR, FPM, NBR, NR, PA, PET, PMMA, POM, PP, PS, PTFE, PU, PUR
- · Metals: Steel, cast iron, brass, copper, aluminum

#### **Temperature Properties**

The lubricant used must be suitable for the specific ambient temperature of the product. The viscosity allowed for proper operation should not be exceeded at low temperatures or fall below at high temperatures. Refer to the permissible viscosity in the Technical Data section.

#### **Aging of Lubricants**

Depending on your experience with the lubricant used, it should be periodically checked at intervals determined by the operator to see if it needs to be replaced due to aging processes (bleeding). If there is doubt about the continued suitability of the lubricant, it should be replaced before recommencing operation. If you have no prior experience with the lubricant used, we recommend checking it after just one week.

#### **Avoidance of Disruptions and Hazards**

To avoid disruptions or hazards, please consider the following:

- When handling lubricants, be sure to follow the respective Safety Data Sheet (SDS) and, if applicable, the hazard labeling on the packaging.
- Due to the variety of additives, some lubricants that meet the requirements for pumpability mentioned in the manual may not be suitable for use in centralized lubrication systems.
- Do not mix lubricants. This can have unforeseen effects on the properties and usability of the lubricant. Lubricants containing solid lubricants should only be used after technical clarification with lubricants manufacturer.
- The ignition temperature of the lubricant must be at least 50 Kelvin above the maximum surface temperature of the components.



#### **Solid Lubricants**

The use of solid lubricants is only allowed after prior consultation with the lubricant manufacturer. When using solid lubricants in lubrication systems, the following should be generally considered:

#### **Graphite:**

- Maximum graphite content 8%
- Maximum particle size 25 µm (preferably in lamellar form)

#### MoS2:

- Maximum MoS2 content 5%
- Maximum particle size 15 μm

#### Copper:

• Copper-containing lubricants tend to form deposits on pistons, bores, and mating surfaces. This can lead to blockages in the centralized lubrication system.

#### **Calcium Carbonate:**

· Lubricants containing calcium carbonate tend to cause severe wear on pistons, bores, and mating surfaces.

#### Calcium Hydroxide:

• Lubricants containing calcium hydroxide tend to harden significantly, which can lead to the failure of the centralized lubrication system.

#### PTFE, Zinc, and Aluminum:

• For these solid lubricants, no limits for use in lubrication systems have been established based on current knowledge and practical experience.



### **Overview**

The SSVA progressive block divider works on the principle that the internal pistons are moving in sequence by hydraulic pressure, then each grease outlet discharges the grease to the different lubricating points following this sequence.

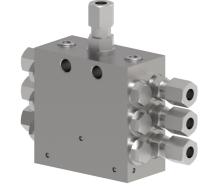
The internal accesses in the SSVA progressive block divider can be combined by blocking the corresponding outlets to achieve a variety of different combinations and ratios of grease output, making it easier to arrive the different mounts of grease required for different lubrication points.

During the SSVA progressive block divider operation, the piston must complete a full discharge process before another piston begins operation, if one piston blocked the rest of the pistons will not move.

To monitoring whether the entire divider is blocked, the user can observe by installing divider monitoring sensor to easily check the movement of one piston.

### **Technical data**

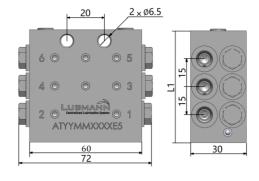
| Max. operating pressure:                  | 350 bar  |
|---|--|
| Min. operating pressure:                  | 20 bar   |
| Operating temperature:                    | -35°C to 70°C  |
| Lubricant:                                | Greases up to NLGI- Cl.2,<br>No grease with solids, no oil |
| In-/ Outlet thread:                       | M10 x 1  |
| Number of outlets:                        | 6 - 20   |
| Delivery quantity per outlet (mm³/stroke) | 200  |





When installing the SSVA dividers, please make sure that the divider can always be mounted vertically.

| Divid | er Series | Number of outlets | L1 mm | Weight (kg) |
|-------|-----------|-------------------|-------|-------------|
| S     | SVA 6     | 6                 | 62    | 0,761       |
| S     | SVA 8     | 8                 | 77    | 0,953       |
| SS    | SVA 10    | 10                | 92    | 1,147       |
| SS    | SVA 12    | 12                | 107   | 1,342       |
| SS    | SVA 14    | 14                | 122   | 1,535       |
| SS    | SVA 16    | 16                | 137   | 1,729       |
| SS    | SVA 18    | 18                | 152   | 1,920       |
| SS    | SVA 20    | 20                | 167   | 2.108       |

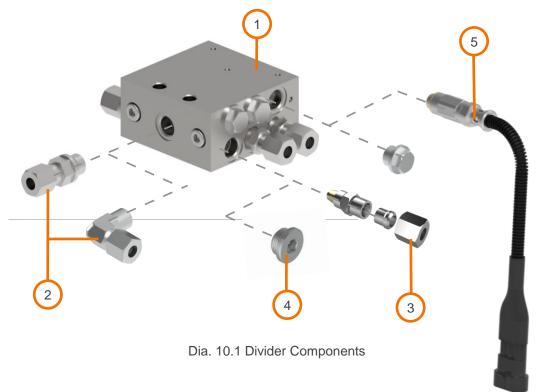




## **Assembly and Components**

- 1 SSVA divider might be made of:
- 1 x Inlet screw coupling,
- N x Outlet screw coupling,
- N x Screw plug
- 1 x Divider Body (min. 6 outlets, max. 20 outlets),
- 1 x Divider Monitoring Sensor

By properly plugging the outlet connectors or outlet blind plugs, the grease volume of each outlets can be adjusted and distributed.



| No. | Components                | Page  |
|-----|---------------------------|-------|
| 1   | Divider body              | 5     |
| 2   | Inlet screw coupling      | 6     |
| 3   | Outlet screw coupling     | 7-8   |
| 4   | Screw plug                | 8     |
| 5   | Divider monitoring sensor | 11-12 |



## **Divider Body**

There are 2 different types with standard Part No. for customer ordering:

- 1. Progressive block divider body without monitoring sensor, without in- and outlets and with sealing screw and sealing steel ball on outlets "1" and "2" (Dia. 15.1),
- 2. Progressive block divider body with monitoring sensor PNP EU ver. (default position on the bottom and right side of the divider as in Dia. 15.2), without in- and outlets and with sealing screw and sealing steel ball on outlets "1" and "2".

The divider monitoring cable must be ordered separately.

| Description | Possible for<br>divider<br>monitoring* | With in- and outlet connectors | Part No.   |
|-------------|--|--------------------------------|------------|
| SSVA 6      | Yes                                    | No                             | 2110001020 |
| SSVA 8      | Yes                                    | No                             | 2110001021 |
| SSVA 10     | Yes                                    | No                             | 2110001022 |
| SSVA 12     | Yes                                    | No                             | 2110001023 |
| SSVA 14     | Yes                                    | No                             | 2110001024 |
| SSVA 16     | Yes                                    | No                             | 2110001025 |
| SSVA 18     | Yes                                    | No                             | 2110001026 |
| SSVA 20     | Yes                                    | No                             | 2110001027 |



Dia. 11.1 Divider body

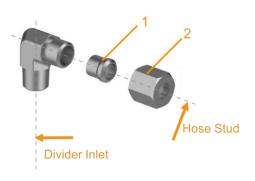
<sup>\*</sup> More possibilities for divider monitoring sensor please check page 17.

## **Inlet Screw Couplings**

All screw couplings with M10x1k threads can be directly used for the inlet connection of the SSVA divider. All screw couplings with M10x1 threads must be used together with a copper ring (or ED sealed) for the inlet connection.

### Elbow inlet screw couplings (Dia. 12.1)

| Description                 | Part No. |
|-----------------------------|----------|
| WE-D6LL-M10x1k-ST-ZnNi      | 9900147  |
| WE-D8LL-M10x1k-ST-ZnNi      | 9900149  |
|                             |          |
| Spare part 1 – Cutting ring |          |
| SRE-D6LL-ST-ZnNi            | 9900209  |
| SRE-D8LL-ST-ZnNi            | 9900211  |
|                             |          |
| Spare part 2 - Union nut    |          |
| ÜM-D6LL-ST-ZiNi             | 9900199  |
| ÜM-D8LL-ST-ZiNi             | 9900202  |

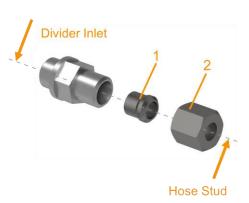


- 1- Cutting ring
- 2- Union nut

Dia. 12.1 Elbow inlet screw coupling

### Straight inlet screw couplings (Dia. 12.2)

| Description                     | Part No.   |
|---------------------------------|------------|
| GE-D6LL-M10x1k-ST-ZnNi          | 9900111    |
| GE-D8LL-M10x1k-ST-ZnNi          | 9900112    |
| GE-D6LL-M10x1 (SW14-ED)-ST-ZnNi | 3050100890 |
| GE-ZN M10D6 (ED sealed)         | 3050104830 |
|                                 |            |
| Spare part 1 – Cutting ring     |            |
| SRE-D6LL-ST-ZnNi                | 9900209    |
| SRE-D8LL-ST-ZnNi                | 9900211    |
|                                 |            |
| Spare part 2 – Union nut        |            |
| ÜM-D6LL-ST-ZiNi                 | 9900199    |
| ÜM-D8LL-ST-ZiNi                 | 9900202    |



- 1- Cutting ring
- 2- Union nut

Dia. 12.2 Straight inlet screw coupling



## **Outlet Screw Couplings**

The SSVA progressive divider can be used as either a main divider or a secondary divider.

From the main divider to the secondary divider, a screw coupling with non-return valve is mainly used as the outlet fitting of the main divider for the connection with a high-pressure hose and hose stud with outer diameter 6mm. From the secondary divider to the greasing points, a screw coupling with or without non return valve is mainly used as the outlet fitting of the secondary divider for the connection with a polyamide pipe with diameter 6x1.5mm or steel pipe with a diameter 6x1mm.

All screw couplings (including non-return valve and coupling, without non-return valve Push-in coupling) with M10x1k threads can be directly used for the inlet connection of the SSVA divider. All screw couplings with M10x1 threads can be used together with a copper ring for the input connection.



For construction machinery application like excavators, wheel loaders, please use non return valves for all divider outlets due to the high back pressure from the greasing points.



| Type of couplings* | High pressure hose<br>ø 6 mm | Steel pipe<br>ø 6 mm | PA Hose<br>ø 6 mm |
|--------------------|------------------------------|----------------------|-------------------|
| RGE                | with hose stud Y             | <b>~</b>             | <b>~</b>          |
| PGE                | with hose stud Y1 / N        | ×                    | <b>~</b>          |

For hose stud description pls check accessories catalogue.

\* RGE Non-return valves

PGE Straight Push-in quick couplings



### RGE (Dia. 14.1)

| Description                 | Part No.   |
|-----------------------------|------------|
| RGE-6LL-M10x1-ST-ZnNi       | 3050101710 |
|                             |            |
| Spare Part 1 – Cutting ring |            |
| SRE-D6LL-ST-ZnNi            | 9900209    |
|                             |            |
| Spare Part 2 – Union nut    |            |
| U-ZN D6                     | 9900199    |



- 1- Cutting ring
- 2- Union nut

Dia. 14.1 RGE - Non-return Valve

### Straight connector-push in PGE (Dia. 14.2)

| Description     | Part No. |
|-----------------|----------|
| PGE-MS-M10x1-D6 | 9900243  |



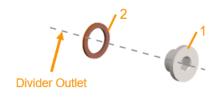
Dia. 14.2 PGE – Straight connector - push in

## Screw plug divider outlet

The function of the blind plug of SSVA divider is to achieve a double or multiple flow rate by direct blinding one or more outlets continuously on one side of the divider.

\* More details regarding the working principle please check on page 15 -16.

| Description                     | Part no.   |
|---------------------------------|------------|
| Screw plug-DIN910-M10x1-ST-ZnNi | 3010401940 |
| DR-DIN7603 A-10x14x1-Cu         | 3010401930 |



- 1- Screw plug
- 2- (DR) Sealing Ring CU

Dia. 14.3 Screw plug divider outlet



## **Divider External Combination Principle**

To meet the volume demand of the different greasing points under various application environment, sometimes it is necessary to combine the outlets of the divider internally to achieve more possibilities of the flow rate combination.

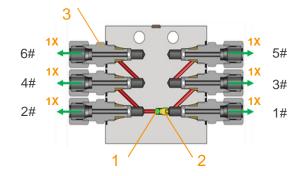
#### Divider without combination

As shown in Dia. 15.1, the red slanted holes represent the channel connecting the two adjacent grease outlets; each SSVA divider valve body is only installed with a sealing screw and a sealing steel ball at the bottom piston (for outlets 1# and 2#) of the divider body, which in the farthest part from the fixing hole.

For a divider with sealing screw and sealing steel ball, none of the outlets 1# and 2# can be blocked by a blind plug.



| Description  | Part no.   |
|--|------------|
| Sealing steel ball for divider outlet separation-D3-ST           | 3049000450 |
| Sealing screw for divider outlet separation-M4-ST                | 3040102550 |
| Non return valve with sealing cone (brass)-RGE-6LL-M10x1-ST-ZnNi | 3050101710 |



- 1- Sealing steel ball
- 2- Sealing screw
- 3- Non return valve with sealing cone

Dia. 15.1 Divider without combination

### Divider with combination (combination one side)

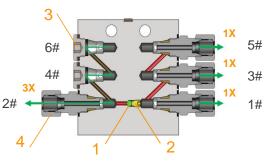
As shown in Dia. 16.1, after the outlet is blocked by a blind plug, the outlets will be merged downward with the adjacent outlet. The non-adjacent outlets cannot be jump merged. For example: when the outlet 6# is blocked, the grease flows into outlet 4#, and the flowrate of discharged grease from 4# is twice as before; when the outlet 6# and outlet 4# are blocked at the same time, the grease flows into the 2# and grease is discharged from outlet 2# and the flowrate of the discharged grease from 2# is trebled.

For a divider with sealing screw and sealing steel ball, none of the outlets 1# and 2# can be blinded by a blind plug.





| Description  | Part no.   |
|--|------------|
| Sealing steel ball for divider outlet separation-<br>D3-ST       | 3049000450 |
| Sealing screw for divider outlet separation-<br>M4-ST            | 3040102550 |
| Screw plug-DIN910-M10x1-ST-ZnNi                                  | 3010401940 |
| DR-DIN7603 A-10x14x1-Cu  | 3010401930 |
| Non return valve with sealing cone (brass)-RGE-6LL-M10x1-ST-ZnNi | 3050101710 |



- 1- Sealing steel ball
- 2- Sealing screw
- 3- Outlet blind plug
- 4- Screw plug

Dia. 16.1 Divider with combination

### Divider with combination (combination both sides)

When the combined outlets on one side cannot meet the flowrate requirements, the sealing screw and sealing steel ball (Dia. 16.2) can be removed from the outlet 1# and implement with a blind plug either on 1# or 2#, and the grease on the opposite side can be merged in. For example, a 6 outlets divider needs 4 outlets to be combined and discharge 4 times of the flowrate as usual from the 2# outlet, then 1#, 4#, and 6# need be blocked with a blind plug and remove the sealing screw and sealing steel ball.

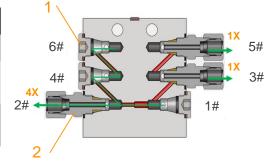
For a divider without sealing screw and sealing steel ball, outlets 1# and 2# cannot be blocked at the same time.



The merging of the outlets in different sides can only be realized through the outlets 1# and 2#.



| Description  | Part no.   |
|--|------------|
| Screw plug-DIN910-M10x1-ST-ZnNi                                  | 3010401940 |
| DR-DIN7603 A-10x14x1-Cu  | 3010401930 |
| Non return valve with sealing cone (brass)-RGE-6LL-M10x1-ST-ZnNi | 3050101710 |



- 1- Screw plug
- 2- Non return valve with sealing cone

Dia. 16.2 Divider with combination



## **Divider Monitoring**

### Divider monitoring sensor kit

Thanks to the Hall effect, the divider monitoring sensor kit is designed to monitor the operation status of the divider with the magnet pin (Dia. 17.1). During the working time of the pump, the sensor checks the movement of the piston and send signal back to pump. Based on different working principles \* (time-control or cycle-control) and parameter settings, the pump will judge whether the divider is working normally or not and send warning to pump or customized terminal if necessary.

#### Sensor type:

NPN: Sensor signal is (-) negative. Normally open type contact can be used. Standard version for ALPB HSC / ALP81 AH Ver.

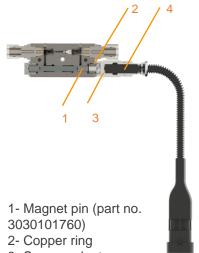
PNP: sensor signal is (+) positive. Normally open type contact can be used. Standard version for ALPB / ALP81 BYN Ver.



| Part no. (single part without divider element)*: | EU version  | CN version |  |  |
|--|---|------------|--|--|
| NPN:   | 2111000146  | 2111000148 |  |  |
| PNP:   | 2111000145  | 2111000147 |  |  |
|  |   |            |  |  |
| Technical data:                                  |   |            |  |  |
| Approval/Conformity:                             | cULus/CE/   | WEEE/EAC   |  |  |
| Connection with divider:                         | M12x1   | plug in    |  |  |
| Connection with cable:                           | Connection with cable: AMP Super Seal 1.5 SRS. 3P Tab |            |  |  |
| Connecting method:                               | NPN   | NPN / PNP  |  |  |
|  |   |            |  |  |
| Power rating:                                    | 200 mA  |            |  |  |
| Voltage:   | 10 to 30 V DC   |            |  |  |
| Temperature range:                               | - 25 °C to + 85 °C                                    |            |  |  |
| Function display:                                | LED yellow  | LED red    |  |  |
| Housing material:                                | erial: Stainless steel                                |            |  |  |
| Protection type:                                 | on type: IP 67  |            |  |  |

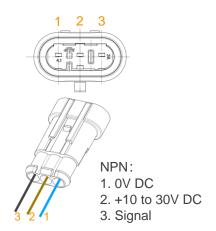
Attention: For the part no. of divider monitoring sensor kit, the sensor , copper ring and sensor connector are included (Pos. 1 & 3 in Dia. 17.1). The connecting cable between sensor and pump, the divider element are NOT included. More information for cables please check on the next page.





- Sensor adapter
- 4- Divider monitoring Sensor

Dia. 17.1 Divider with monitoring sensor kit



Dia. 17.2 Divider monitoring sensor wiring connection



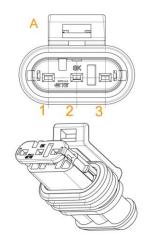
Dia. 17.3 Divider monitoring sensor adapter SSVA M10x1 -M12x1 SW14 L34 (Part No. 3050101950)

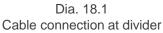


### Connecting cable – divider monitoring sensor

Depends on the various application, the sensor cable has to be ordered separately as following description.

| Part No. (cable):              | BD plug  | HSC cubic plug                             |
|--------------------------------|--|--|
| Length 5 m:                    | 2110012410   | 2110010539                                 |
| Length 7.5 m:                  | 2110012409   | 2110002734                                 |
| Cable Connection with Divider: | TE - AMP Super Seal 1.5 SRS. 3P Plug Connector (IEC 529 and ISO 20653) |  |
| Cable Connection with Pump:    | RD24 Series 693  | Cubic GDM 3011 J<br>(DIN EN 175 301-803-A) |







Dia. 18.2 Cable connection with BD 4 poles



Dia. 18.3 Cable connection with HSC cubic GDM 3011 J



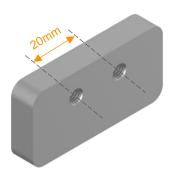
## **Divider Accessories**

### **Divider mounting bracket**

As an important accessory of the divider, the divider bracket is widely used in the installation of automatic lubrication systems. Especially when customers prefer that the installers do not drilling on their equipment.

In our accessories catalogue you can find many more types of divider mounting brackets.

**Attention:** When selecting a suitable divider bracket, please note that the brackets of the JPQ1 and SSVA series dividers have different mounting distance between the mounting holes.



Dia. 19.1 Divider mounting bracket

### Banjo with grease nipple

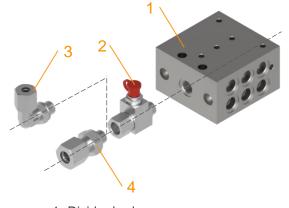
As an option, a banjo with grease nipple is provided to using a manual or hydraulic pump to refill the grease directly from the inlet connection of the divider when the automatic lubrication pump does not work.

Attention: Please check the hoses between the banjo and the pump before starting refilling Grease from the banjo!



If the hose is broken, please use a non-return valve to replace the inlet coupling.

If the hose is in good situation, please do not disconnect the hose between the pump and banjo.



- 1- Divider body
- 2- Banjo Block with grease nipple
- 3- Elbow inlet screw coupling
- 4- Straight inlet screw coupling

Dia. 19.2 Banjo with grease nipple



## **SSVA Order Key**

**SSVA** 

100

3/4/7

2P

000

| No. | of | total | outlets |
|-----|----|-------|---------|
|     |    |       |         |

| 3 = 6 total outlets  | 7 = 14 total outlets    |
|----------------------|-------------------------|
| 4 = 8 total outlets  | 8 = 16 total outlets    |
| 5 = 10 total outlets | 9 = 18 total<br>outlets |
| 6 = 12 total         | 10 = 20 total           |

outlets

| No. | of | valid | outlets |
|-----|----|-------|---------|
|     |    |       |         |

outlets

X = No. of valid outlets

 $X \le No.$  of total outlets

|   | 0          | 0                                |   |
|---|------------|----------------------------------|---|
|   | 8          | 7                                | H |
|   | 6          | 5                                |   |
| H | 4          | 3                                | Н |
|   | 2S<br>LUBI | 1S<br>MANN<br>Lubrication System |   |

Dia. 20.1 SSVA - 4 / 5 -100 - 3/4/7 - 0 - 000

### Fittings in inlet and outlets

|      | None | Straight<br>D6mm | Straight<br>D8mm | Elbow<br>D6mm | Elbow<br>D8mm |
|------|------|------------------|------------------|---------------|---------------|
| None | 100  | 104              | 108              | 112           | 116           |
| RGE  | 101  | 105              | 109              | 113           | 117           |
| GE   | 102  | 106              | 110              | 114           | 118           |
| PGE  | 103  | 107              | 111              | 115           | 119           |

#### **Blinded outlets**

X/Y/Z = on outlet position X, Y and Z, the outlets have been blinded

It is NOT allowed to blind the position 1 and 2 on the same time for a SSVA divider.

0 = there are no blinded outlets in the SSVA divider.

| Extra options  |  |  |  |
|--|--|--|--|
| 1P = Outlet position 1 has been implemented with a PNP divider monitoring sensor | 2P = Outlet position 2 has been implemented with a PNP divider monitoring sensor |  |  |
| 1N = Outlet position 1 has been implemented with a NPN divider monitoring sensor | 2N = Outlet position 2 has been implemented with a NPN divider monitoring sensor |  |  |
| 0 = No extra options   |  |  |  |

| Customized code    |     |  |
|--------------------|-----|--|
| Standard version   | 000 |  |
| Customized version | XXX |  |

