

## Groeneveld-BEKA GP-Series

Modular and flexible, suitable for every need



Groeneveld-BEKA GP

The Groeneveld-BEKA GP-series is a versatile, modular progressive lubrication system designed to meet the diverse needs of mobile equipment. It offers a single-pump solution with a range of reservoir types and sizes, ensuring optimal lubrication for various applications using oil or grease up to NLGI-2.

Modular design for flexibility

The GP series is composed of three interchangeable modules:

Top Module: Reservoir

- Paddle Reservoir: Ideal for general-purpose lubrication, minimizing air pockets and grease separation. Available in 2.5, 5, and 8-liter capacities.
- Follower Plate Reservoir: Suitable for both static and rotating applications, preventing air pockets and oxidation, making it perfect for biodegradable greases. Available in 3, 5, and 8-liter capacities.
- Cartridge Reservoir: Easy to replace and ensures the use of the correct grease. Ideal for biodegradable greases. Available in 3-liter capacity.

Central module: Drive unit

- Powerful 12V or 24V drive unit.
- Up to 3 grease outlets with individually controlled pistons. Equipped with 1 pistons as a standard.
- Standard piston output of 2 cc/min, with an optional larger adjustable piston (2-4 cc/min).

Bottom unit: Control unit

- GPA: Basic version without a control unit.
- GPA+: Integrated control unit with a 4-digit display for easy programming, adjustment, and monitoring.
- GPO: Advanced control unit with CAN BUS and Wi-Fi connectivity, enabling remote monitoring, control, and diagnostics.



Different reservoir types

The GP Series offers three interchangeable reservoir types to cater to diverse lubrication needs:



**Paddle Reservoir**  
The standard reservoir option, equipped with a rotating paddle blade that minimizes air pockets and ensures optimal lubricant distribution.

Available in 2.5, 5, and 8-liter capacities, it's suitable for general-purpose lubrication with grease. For oil-based applications, 5- and 8-liter versions are available.



**Follower Plate Reservoir**  
Designed for both static and rotating applications, this reservoir employs a follower plate to compress the grease and prevent oxidation. This makes it ideal for biodegradable greases.

The follower plate ensures complete grease utilization, allowing for easy visual level checks. Available in 3, 5, and 8-liter capacities.



**Cartridge Reservoir**  
A convenient and clean option, this reservoir uses a 3-liter grease cartridge. The easy to replace sealed cartridge protects the grease from contaminants and ensures the use of the correct grease.

It's particularly well-suited for biodegradable greases and modern, compact machinery.

Bottom modules

The GP Series offers three options for the bottom module, each with increasing levels of control and connectivity:



GPA bottom module



GPA+ bottom module



GPO bottom module

**GPA**  
The basic model, without an integrated control unit.

This option is suitable for simple, straightforward lubrication applications.

**GPA+**  
This model features an integrated control unit with a user-friendly display. It allows for easy programming of lubrication intervals, grease output, and monitoring of system status.

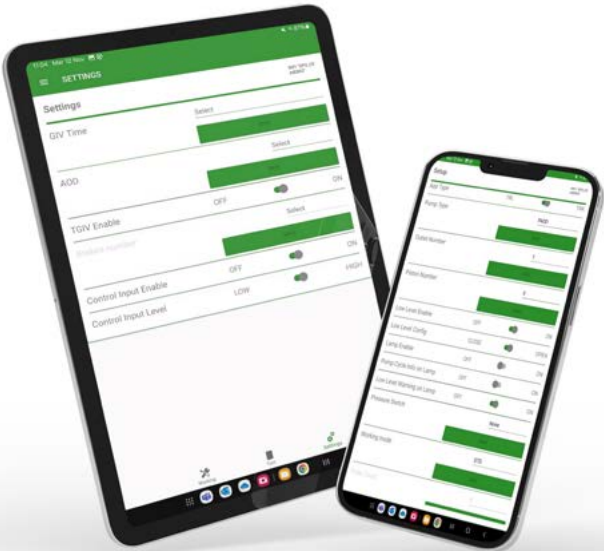
Alarms and warnings are displayed on the screen, enabling timely maintenance.

**GPO**  
The most advanced option, the GPO offers unparalleled control and monitoring capabilities through advanced connectivity features like CAN BUS and Wi-Fi.

This allows for remote access and control of the system, real-time monitoring of critical parameters, remote firmware updates, and advanced diagnostics.

Additionally, the GPO includes a proximity switch and overpressure sensor for enhanced safety and reliability.

|                                                                                                                   | GPA | GPA+ | GPO |
|-------------------------------------------------------------------------------------------------------------------|-----|------|-----|
| PCA with display                                                                                                  | -   | ✓    | ✓   |
| Tyco connector                                                                                                    | ✓   | ✓    | ✓   |
| CAN BUS                                                                                                           | -   | -    | ✓   |
| Low level sensor<br><i>Standard with follower plate reservoir or cartridge.<br/>Optional for paddle reservoir</i> | ✓   | ✓    | ✓   |
| Proximity switch                                                                                                  | -   | ✓    | ✓   |
| Overpressure sensor                                                                                               | -   | -    | ✓   |
| Real Time Clock (RTC)                                                                                             | -   | -    | ✓   |
| WI-FI                                                                                                             | -   | -    | ✓   |
| Mobile app (Android/iOS)                                                                                          | -   | -    | ✓   |



Control your lubrication system at your fingertips with our Lube Connect app!

Our dedicated mobile app, available for both Android and iOS, empowers you to take control of your lubrication system. Monitor critical parameters, receive real-time alerts, and remotely adjust settings, all from the convenience of your smartphone or tablet.

Stay informed and proactive with our user-friendly app. Download the Lube Connect app now!



## Working principle



The GP system comprises a pump with a reservoir for either grease or oil, and up to three internal pistons. Typically, one piston is plugged as a standard, with the option to activate a second and third.

Once activated, the pump draws lubricant from the reservoir and transfers it to the pistons. The pistons then deliver precise amounts of lubricant to the progressive distributors, which, in turn, supply the exact quantity to each lubrication point.

## Technical information

|                             |                                                                                                                                                                              |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pump type                   | Electric piston progressive pump                                                                                                                                             |
| Reservoir types and volumes | Standard: Paddle version, 2.5, 5 or 8 liter<br>Oil-pump: Paddle version, 5 or 8 liter<br>Optional: Follower version, 3, 5 or 8 liter<br>Optional: Cartridge version, 3 liter |
| No. of outputs              | Max. of 3 outlets, 2 plugged as a standard                                                                                                                                   |
| Piston                      | Standard: 2 cc/min ø6<br>Optional: 2-4 cc/min ø8 adjustable outlet                                                                                                           |
| Relieve valve               | Internal                                                                                                                                                                     |
| Low level switch            | Standard for follower plate or cartridge reservoir.<br>Optional for paddle reservoir                                                                                         |
| Maximum operating pressure  | 300 bar (4350 psi)                                                                                                                                                           |
| Lubricant                   | Oil > 40 cSt<br>Grease up to NLGI-2<br>Biodegradable greases only to be used with follower plate or cartridge reservoir                                                      |
| Temperature range           | -20 up to +70 °C (-4 up to 158 °F)                                                                                                                                           |
| Supply voltage              | 12 or 24 Vdc                                                                                                                                                                 |
| Protection class            | IP54 (reservoir)<br>IP69K (electronic compartment)                                                                                                                           |



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