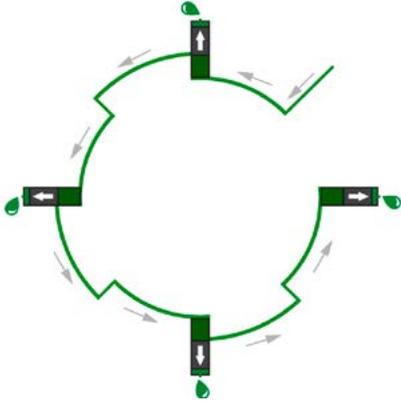


Progressive Systems

Wide range of unique solutions



Progressive systems



A progressive system uses lubricant flow to cycle individual metering valves and valve assemblies. The valves consist of dispensing pistons moving back and forth in a specific bore. Each piston depends on flow from the previous piston to shift and displace lubricant. This ensures that each lubrication point is supplied with the correct and defined amount of grease.

Groeneveld-BEKA offers a wide range of progressive automatic lubrication systems. From the smaller ZEPTO system up to the dedicated TriPlus or GIGA with three independently controlled lubrication circuits.

Also a wide range of progressive distribution blocks is available to meet the requirements of different kinds of applications.

Progressive systems for all kinds of applications



Trucks & Trailers



Refuse trucks



Buses



Mobile cranes



Wheel loaders (<50 tons)



Excavators (<100 tons)



Agricultural machines



Reachstackers



Attachments

BEKAMAX PICO

The PICO system combines power and flexibility in perfect conditions with a compact design. The PICO system is the unique combination of progressive- and multi line technology.

The basic version of the PICO pump supplies lubricant through the progressive outlets to the lube points via one or more progressive distributors. In addition up to 8 lubrication points can be supplied directly via the multi line principle. If necessary the system can be enlarged by a second progressive cycle.

- Very compact design for applications with little number of lubrication points
- Unique combination of two lubrication systems:
- Progressive- and multi line technology
- Suitable for all common lubricants from NLGI-000 up to NLGI-2
- Flexible extension possibilities

System overview



Reservoir

The 1,2 litre reservoir is available with agitator blade or follower plate. The system with a follower plate can be installed in each direction, also upside down.

Follower plate

The follower plate ensures that all the grease in the reservoir is used. This means that the reservoir wall remains clean, allowing you to check the grease level visually. Ageing of the grease as a result of oxidation is also prevented.

Multi line outputs

The PICO has got 8 multi line outputs for different pump elements.

Progressive outputs

The PICO has got 2 progressive outputs for different pump elements.

Filling zerk

The pump can be filled with a standard filling gun. The filling zerk can be replaced by a filling connection to refill using a filling pump.

Control unit

The PICO can be delivered with an integrated control unit with:

- 3 control functions: time, stroke or revolutions
- Electronic monitoring of grease level, pump function, distributor function, line rupture, lubricant feeding
- Selection of operating conditions: easy, medium or heavy
- Integrated data logger with diagnosis module DiSys

The protective housing is equipped with a bayonet or Hirschmann plug-type connection.

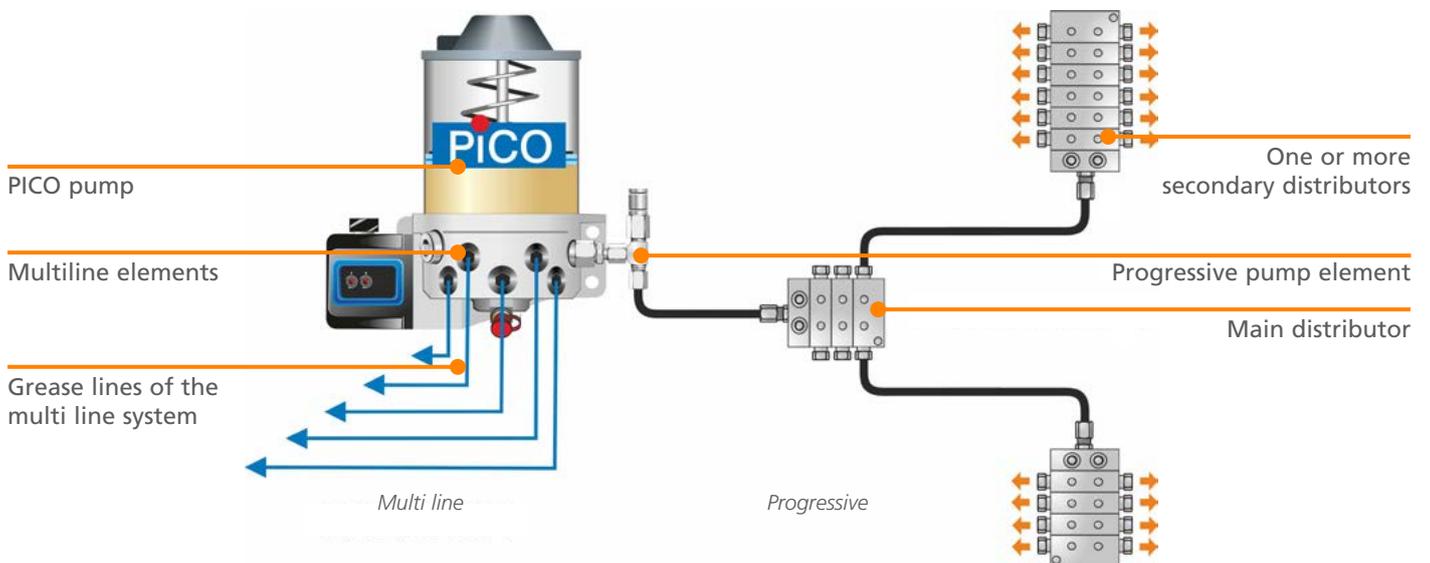
Pump elements

Two different construction types of pump elements can be installed into the device, depending on for which lubrication system or for which lubrication system combination the device is used.

System	Pump elements	Metering volume
Multi line	PE 5	0.005 cc/stroke
	PE 10	0.010 cc/stroke
	PE 15	0.015 cc/stroke
	PE 25	0.025 cc/stroke
	PE 50	0.050 cc/stroke
Progressive	PE 120 F	with/without pressure limiting valve
	PE 120 FV	
		0.120 cc/stroke
		0.04 up to max. 0.12 cc/stroke (adjustable)

Working principle

When the pump is activated, grease is pumped through the pump elements. The pump elements transfer the grease to main and secondary progressive distributors. The multi line elements transfer the grease directly to the lubrication points.



Technical information

Pump type	Electric
Supply voltage	12 or 24V
No. of outlets	Max. 10, 2 progressive and 8 multi line
Maximum operating pressure	200 bar (2900 psi) at multi line system 280 bar (4000 psi) at progressive system
Delivery volume	Max. 0.12 cc per stroke/outlet
Reservoir capacity	1,2 litre
Grease class	Greases up to NLGI-2
Temperature range	-20 up to +70 °C / (-4 up to 158 °F)
Protection class	IP65

Applications

The BEKAMAX PICO can be used for a wide variety of applications but is most commonly used for mobile applications like trucks and trailers, busses and industrial applications.



Trailers



Tippers



Refuse trucks



Busses