

BEKA® FKG-EP Series

The BEKA® FKG-EP Series is a range of electrically actuated pumps with up to 8 lubrication outlets, depending on the pump type. The complete series contains a wide range of different pump types which are commonly used as a progressive lubrication system for a variety of industrial applications. The versatility of the system also makes it possible to set-up the system as a single line lubrication system.

The pumps in the FKG-EP Series are able to work with commercial greases from NLGI-000 up to NLGI-2.

- A versatile solution for a variety of industrial applications
- Suitable for the most common greases
- Springless pump elements with desmodromic drive for highest reliability

System overview



FKG-EP Series pump without control unit

Level monitor

Pumps in the FKG-EP Series be equipped with an electronic grease level controller to monitor the minimum grease level.

Reservoir

The pumps in the FKG-EP Series are equipped with either a plastic or steel reservoir with different capacities. All reservoirs are equipped with an agitator blade. The agitator blade pushes the lubricant into the suction area in the pump housing through a screen, preventing the lubricant from air bubbles. The agitator blade in transparent reservoirs also enable a visual check of the lubricant volume.

Filling zerk

The pump can be filled with a standard filling gun. The grease nipple can be replaced with a larger filler coupling or a straight fill-in connection to use a fill-in press.

Control unit

Pumps in the FKG-EP series differ in control type. Depending on the pump type, they are delivered with or without an integrated control unit in the bottom housing.

The EP-tronic control unit on pumps with a control unit offer:

- 3 control functions, being time, distributor stroke or pump revolutions
- Electronic monitoring of grease level, pump function, distributor function, line rupture and lubricant feeding
- An integrated data logger with the DiSys diagnosis module

Pump elements

Depending on the pump type up to 8 lubricant outlets can be installed on the pump. A separate pump element is required for each outlet. Three pump elements with different flow rates are available, as well as a flow-adjustable pump element. All pump elements are marked either with a groove or with a notch for a better differentiation.

The pump elements can be equipped with a visual malfunction indicator on the pressure relief valve. If a malfunction should occur in the lubrication system and operating pressure rises, a red pin becomes visible.



PE 60 PLV
0,06 cm³/stroke



PE 120 PLV
0,12 cm³/stroke



PE 120 V PLV
Max. 0,12 cm³/stroke
Adjustable output



PE 170 PLV
0,17 cm³/stroke

Pressure: Max. 350 bar (5076 psi)
Pressure limiting valve: adjusted to 290 bar (4206 psi)

Technical information

Function principle	Electric
Outlets	Max. 8, depending on pump type
Delivery volume ¹⁾	0,06 to 0,17 cm ³
Adjustable delivery volume ²⁾	0,04 to 0,12 cm ³
Lubricant	Greases up to NLGI-2, grease with solid contents only on demand
Operating temperature ³⁾	-20 up to +70 °C / (-4 up to 158 °F)
Operating pressure	Max. 350 bar (5076 psi)
Pressure limiting valve	Adjusted to max. 290 bar (4206 psi)
Reservoir	1,9; 2,5; 4,2; 8 kg plastic transparent 2; 4 kg steel
Protection class	IP54
Operating voltage	12 or 24 V DC 115; 230 or 400 V AC

¹⁾ Depending on pump element

²⁾ Only possible with PE 120 V

³⁾ Depending on lubricant

