Piston pump with reservoir Models KFA1 and KFA10



The pump can be outfitted with a maximum of two pump elements.

Versions for various operating voltages are available.

	With lubricant-level switch	
Order No.	Order No.	Operating voltage
KFA1-M	KFA1-M-W	24 V DC
KFA10	KFA10-W	115 V AC, 50 or 60 Hz 230 V AC, 50 or 60 Hz

Pump elements

Order No.	Delivery rate 1) [ccm/min]	Connection thread	
KFA1.U1	2.0		
KFA1.U2	1.5	M14x1.5	
KFA1.U3	1.0		

¹⁾ The indicated delivery rates refer to the delivery of NLGI grade 2 grease at a temperature of +20 °C and a back pressure of 50 bars. Temperatures and pressures that deviate therefrom will change the delivery rate.

Take the indicated values as a basis when configuring a central lubrication system.

Safety valves

Order No.	Opening pressure [bars]	Connection thread	Connection for tube diam.
161-210-012 161-210-016	300 ± 20	M14x1.5	6 10

Please indicate in addition to the order No.: operating voltage, quantity and order No. of pump elements with safety valve.

Order example

KFA1-M-W, 24 V DC

outfitted with pump element outlet 1 - KFA1.U1 outlet 2 - KFA1.U3 and 2 safety valves 161-210-012

Technical data

Unit

Model KFA1

Typ. power consumption 0.5 A at 24 V at max. operating pressure and 20° C Max. back pressure......300 bars Mode/ON time...... S3 – 20 % – 50 minutes Perm. operating temperature ... -25 °C to +75 °C

Model KFA10
Operating voltage 115 V AC, 50 or 60 Hz
230 V AC, 50 or 60 Hz
Typ. power consumption \dots 1 A at 115 V / 50 Hz
at max. operating pressure and 20° C 1.3 A $$ at 115 V / 60 Hz $$
0.45 A at 230 V / 50 Hz
Max. back pressure300 bars
Mode/ON time
Perm. operating temperature 0 °C to +40 °C

Models KFA 1 and KFA10

Type of enclosure, DIN EN 60 529. IP 55
Reservoir capacity1 kg
Number of outlet ports max. 2
Meets EC Directives: 89/336/EEC (EMC)

Lubricant	grease up to NLGI grade 2
	with EP additives,
	max, flow pressure 700 mbars

Please note: only use grease that has been approved by Willy Vogel AG.

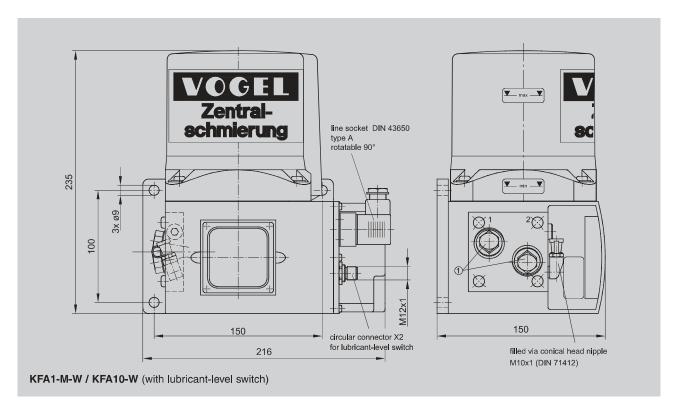
Approved lubricants list "Lubricants for Progressive systems, NLGI grade 2" see "www.vogelag.com" or please request from "info@vogel-berlin.de".

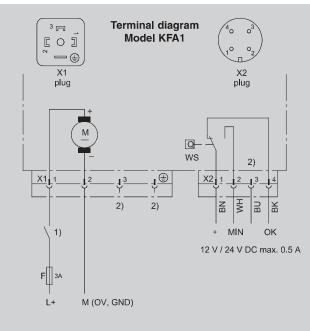
Lubricant-level switch

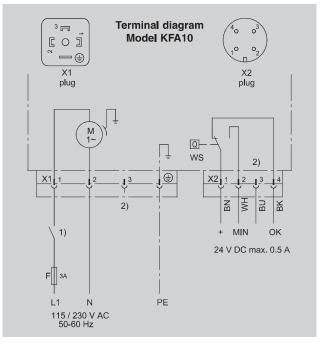
Type of contact	. i cnangeover
Max. rated voltage	. 24 V DC
Max. switching current	. 0.5 A
Socket box	. M12x1 (4-PIN)

Please note:

The installation's ambient surroundings and cable connections have a decisive influence on the unit's electromagnetic compatibility. During the installation it is therefore necessary to assure the EMC of the entire system.







Legend, model KFA1

- L+ +potential, supply voltage (main machine switch ON)
- M -potential, supply voltage (OV, GND)
- **X1** plug-in connection, supply voltage
- X2 plug-in connection, lubricant-level switch
- WS lubricant-level switch contact illustration: full reservoir)
- F fuse (line protection)
- external control system: relay contact "pump ON"
- 2) PIN without internal connection

Protective measures to be taken for proper operation:

"Functional extra-low voltage with safety separation" (FELV)

Standards: EN 60204 Part 1: 1992 / IEC 204-1: 1992, modified DIN VDE 0100 T 410 A2 / IEC 364-4-41: 1992

X2 PIN	Color code abbreviations	Core color
1	BN	brown
2	WH	white
3	BU	blue
4	BK	black

Legend, model KFA10

L1/N supply voltage

(main machine switch ON)

PE protective earth conductor

X1 plug-in connection, supply voltage

X2 plug-in connection, lubricant-level switch

WS lubricant-level switch contact illustration: full reservoir

F fuse (line protection)

1) external control system: relay contact "pump ON"

2) PIN without internal connection