

Order No.	Delivery rate [l/min]	Reservoir capacity [l]	manual/ external	Control		Components				Hydraulic layout	Wiring diagram	Drawing
				IG38-3	IZ38-3	DK	DS	WS	MA			
MKF1-K2-10000	0.1	1.8	external							1	1	1
MKF1-K2-10001	0.1	1.8	external				●			1	1	1
MKF1-K2-10003	0.1	1.8	external						●	1	1	1
MKF1-KW2-10000	0.1	1.8	external					●		1	1	1
MKF1-KW2-10001	0.1	1.8	external				●	●		1	1	1
MKF1-KW2-10003	0.1	1.8	external					●	●	1	1	1
MKF1-KW2-10004	0.1	1.8	external				●	●	●	1	1	1
MKF2-K3-22005	0.2	3		●		●	●			2	3	3
MKF2-K3-22015	0.2	3			●	●	●			2	3	3
MKF2-K3-22016	0.2	3			●	●	●		●	2	3	3
MKF2-KW3-20001	0.2	3	●			●	●	●		2	2	2
MKF2-KW3-20003	0.2	3	●			●	●	●	●	2	2	2
MKF2-KW3-20004	0.2	3	●			●		●	●	2	2	2
MKF2-KW3-20005	0.2	3	●			●		●		2	2	2
MKF2-KW3-22003	0.2	3		●		●	●	●	●	2	3	3
MKF2-KW3-22013	0.2	3			●	●	●	●	●	2	3	3
MKF2-KW6-20003	0.2	6	●			●	●	●	●	2	2	4
MKF2-KW6-22001	0.2	6		●		●	●	●		2	3	5
MKF2-KW6-22003	0.2	6		●		●	●	●	●	2	3	5

Reservoir material: plastic

● = components contained in the unit. **DK** = pushbutton / **DS** = pressure switch / **WS** = level indicator / **MA** = pressure gauge

Technical data

Gear pump unit

Flow rate at 50 Hz 0.1 or 0.2 l/min
at 60 Hz 0.12 or 0.24 l/min
at a back pressure of $p = 5$ bars
Operating pressure $30 \pm \frac{1}{2}$ bars
corresponds to actual value of built-in safety valve

Operating temperature. +10 to +40 °C
Reservoir capacity nominal 1.8, 3 or 6 l
Reservoir material plastic
Type of enclosure. IP 54
Frequency/voltage 50/60 Hz, 115 V AC or
50/60 Hz, 230 V AC
please indicate when ordering

Medium grease, NLGI grade 000, 00
compatible with plastics, NBR elastomers,
copper, copper alloys

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

Approved lubricants list see “www.vogelag.com” or
please request from “,info@vogel-berlin.de”.

Motor with built-in thermostatic switch

Mode of operation S3, 20 % (1.25 to 25 min)
duty cycle ¹⁾
Power consumption approx. 50 Hz: 115 W; 60 Hz: 140 W
Speed 50 Hz: 2700 rpm;
60 Hz: 3300 rpm

Level indicator

Function opens in event of
low lubricant (PNP)
Voltage range 10...65 V DC
Continuous current. ≤ 200 mA
Natural current consumption 6...12 mA

Pressure switch

Type of contacts. NO-contact
Max. switching voltage 42 V AC
Max. switching current. 2.5 A
(ohmic load)
Max. contact rating 30 VA ²⁾

Switching pressure. 20 bars

¹⁾ *The 20% duty cycle is the ratio of the pump running time to the subsequent idle time*

Example:

1 minute of pump running time requires at least 5 minutes of idle time.

The maximum permissible pump running time amounts to 3 minutes.

That results in a necessary idle time of 15 minutes.

²⁾ *Take appropriate measures to protect contacts when switching inductive loads.*