TECHNICAL DATA SHEET

JOKISCH FOSIA MQL MACRO (Jokisch ProLub Macro Jet)

The microlubrication system was developed for the external lubricant supply to cutting and forming tools.

APPLICATION

- Reproducible settings of the spray quantity
- Solid construction of the pump (stainless steel)
- Adjustment range 1:100
- Triple jet nozzle with concentrated spray jet
- Spraying from a distance up to 300mm is possible
- Can be adjusted to the operating process
- Easy handling

FUNCTIOAL PRINCIPLE

The lubricant flows out of the tank **(2)** to the Metering-pumps **(3)** due to the gravity feed and pump suction. The pumps are pneumatically driven. When compressed air is applied to the Metering-pump, displacement piston is driven forward pushing the chosen amount of lubricant through a non-return-valve on the outlet side of the pump. After pneumatically switching over the spring-loaded piston returns to its zero-position. This procedure is continually being repeated by the adjustable impulse generator **(4).** The stroke depth of the piston as well as the amount of lubricant per stroke can be set infinitely using the adjusting knob **(3.1).** The lubricating is driven from the Metering-pump outlet **(3)** to the centre of the coaxial housing connection **(10)**. The compressed air regulated by the pressure regulating valve **(5)** is transferred radially to the coaxial housing connection**(10)**. The Coaxial-plug (quick release) **(11.1)** connects the Metering-pump with the coaxial housing connection **(10)** via hose line **(11.3)**. The mediums / substances of lubricant and compressed air are being conveyed separately to the jet of the Metering-nozzle **(11.4)**. The hose (set) **(11.3)** consists of an inner- and outer-hose. The inner-(centre) hose conveys the lubricant, the outer one the compressed air.
The lubricant outlet port is located in the centre of the Metering-nozzle **(11.4)**. The compressed air is being transferred around this port via a defined ring-shaped passage. Due to this type of nozzles an extraordinary well reproducible, fine sprayed cone of a lubricant-air-mixture is formed not before the jet of the Metering-nozzle **(11.4)**. For each individual use the size of the sprayed cone can be altered by the pressure regulating valve **(5)**.
The unit is factory provided with a basic setting. Experience has shown that this setting is nearly the same for many applications (sawing, drilling, thread cutting, etc.).

LUBRICANT

The special lubricant Jokisch **Monos Miko S3G** is optimally matched to the device.

Jokisch GmbH
Fabrik für Schmier- und Kühlmittelspezialitäten

Industriestraße 5-10 | 33813 Oerlinghausen
T +49 52 02 97 34 0 | F +49 52 02 97 34 49
info@jokisch-fluids.de | www.jokisch-fluids.de

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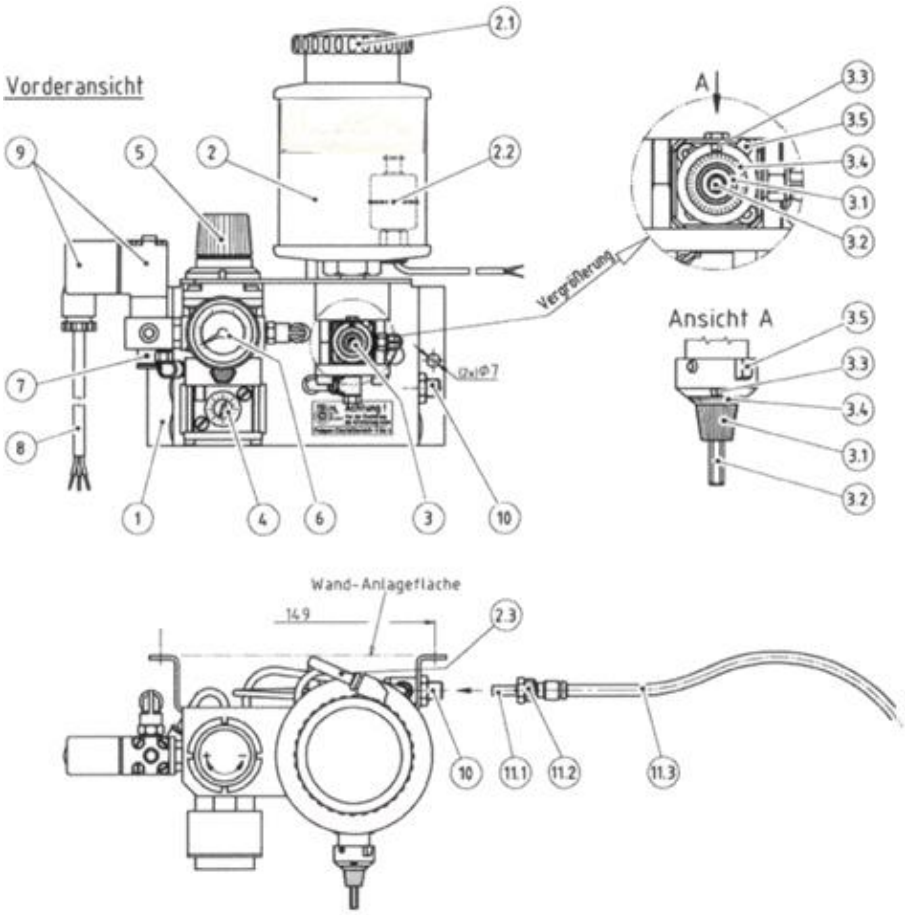
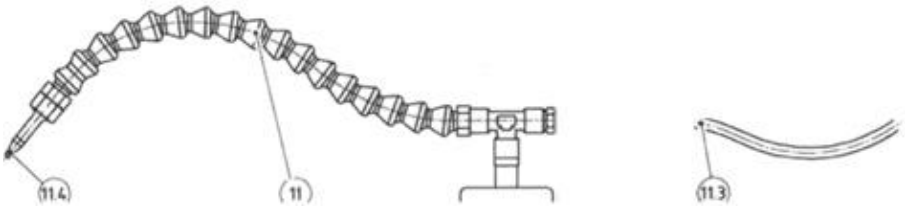
DRAWING





1	Console
2	Lubricant tank 0,5 / 1,0 litre
2.1	Cap
2.2	Leerstandsmesser (only up to 1 L. possible)
2.3	Vent hose
3	Metering pump
3.1	Adjusting knob for amont of lubricant
3.2	Hand festening tappet
3.3	Display field (1 to 6 revolutions)
3.4	Scale (reading: 0,02)
3.5	Locking lever
4	Pulse generator for dosing pump frequency
5	Pressure regulating valve for air blast
6	Manometer for blowing air
7	Pneumatic plug connection (ø 6mm)
8	Connection cable for electrical control
9	Solenoid valve with plug
10	Coaxial connector housing for dispensing nozzles
11	Metering nozzles for example standard nozzles
11.1	Coaxial plug
11.2	Union nut
11.3	Hose fittings
11.4	Dosing nozzles

There are four different available voltages:
24 V DC; 4 W ● 24 V AC; 6 VA
230 V AC; 6 VA ● 110 V AC; 6 VA
Please observe the operating instructions!

Date: 18.09.2016

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