

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

FUNCTIONAL 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

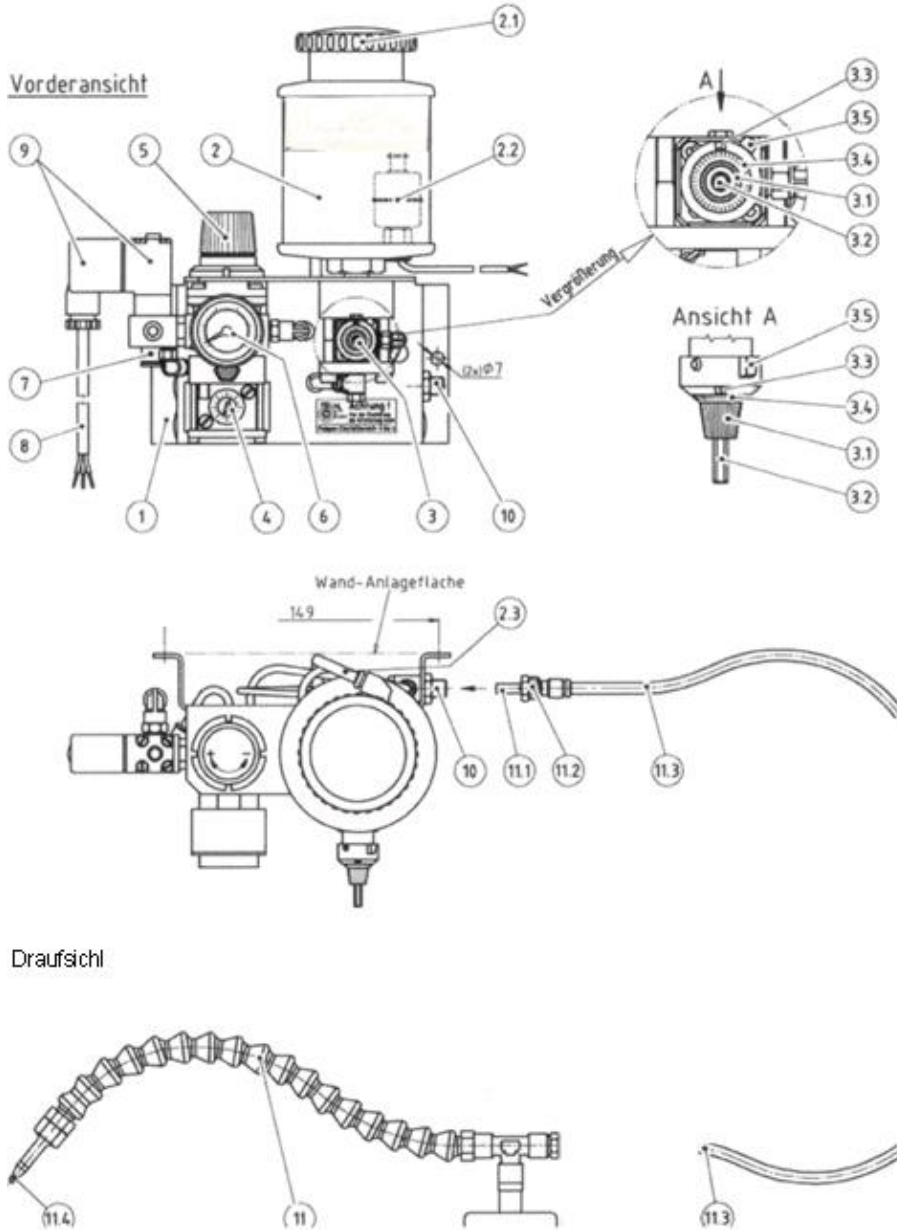
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TECHNICAL DATA SHEET

JOKISCH FOSIA MQL MACRO (Jokisch ProLub Macro Jet)

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 amount
of lubricant
- 3.2 Hand fastening 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
(\varnothing 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!