

Oil/air Lubricator PRELUB

Safe start due to pre-lubricating

The unit is designed for the optimised supply of lubricant to GMN spindles. The (6) lubricating points allow for the connection of one, two or three spindles. The pre-lubricating cycle guarantees a safe start during machine start-up. The separate monitoring of the oil level assures trouble free completion of the operation.

The supply lines can be laid so that they rise or drop. The line length has to be between 0.5...5 m.

The units

- ▶ PRELUB MV 2 - 2 lubricating point connections
- ▶ PRELUB MV 4 - 4 lubricating point connections
- ▶ PRELUB MV 6 - 6 lubricating point connections

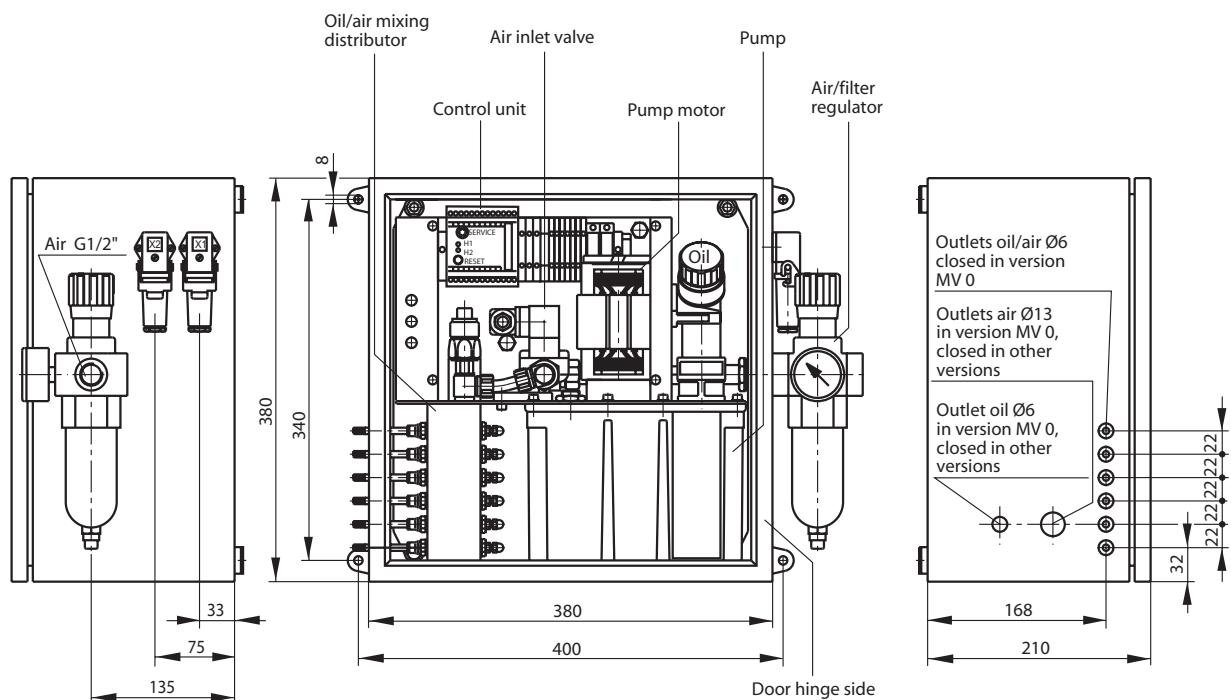
are with integrated oil/air mixing distributor.

The oil/air mixing distributor for PRELUB style MV 0 has to be ordered separately. The mixing distributor can be mounted in up to max. 30 m away the unit.

Refer to the spindle operating instruction manual or test certificate for oil quality, cycle times and pressures.

Equipment

- ▶ Air/filter regulator (5 µm) with air gauge
- ▶ Interface with the machine tool control system to signal readiness for operation after checking
 - oil level
 - oil pressure and oil release pressure
 - air pressure
 - pre-lubricating cycle
- ▶ Timer for matching cycle time to oil viscosity and spindle data
- ▶ Lubricating point connections for PVC tubing, O.D 6 mm
- ▶ Operating voltage 230 V, 50/60 Hz
Option 110 V, 50/60 Hz
- ▶ Air supply G 1/2"
 $p_{\min} = 6 \text{ bar}$, $p_{\max} = 10 \text{ bar}$
- ▶ Power supply and monitoring via connector
- ▶ Installed in control cabinet
380 x 380 x 210 mm (W x H x D)
Enclosure IP 54
- ▶ Colour: RAL 7032 (grey)
- ▶ Fuse protection for 230 V: 1 A; 110 V: 2 A



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Oil/air mixing distributor (6 outlets)

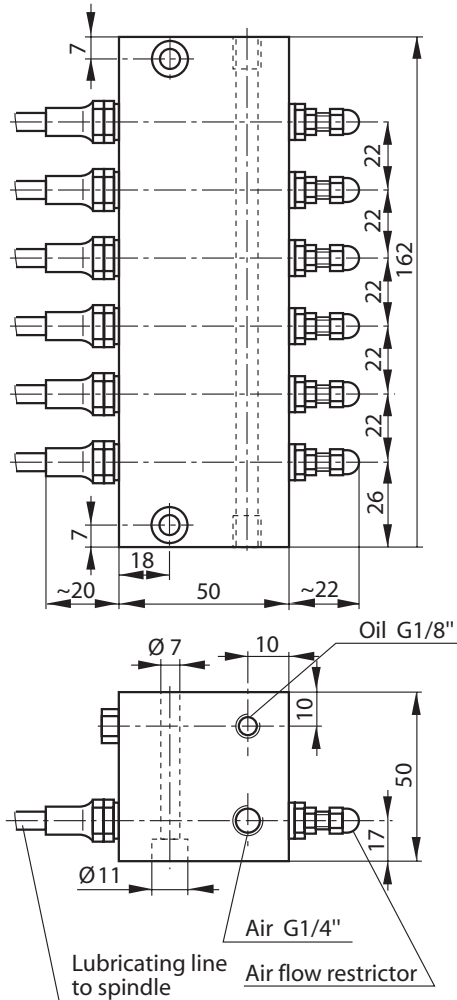
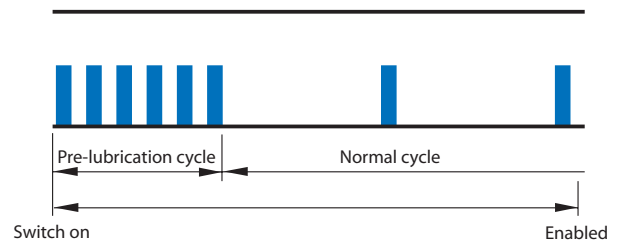


Diagram of pre-lubrication



- ▶ Switch on the oil/air lubricator
- ▶ Carrying out the pre-lubrication cycle before the enable signal to the spindle is given for operating:
 - several lubricating pulses within a short time (pre-lubrication cycle)
 - transition to the normal cycle, that means cycle time as during spindle operation
- ▶ The spindle is enabled after the pre-lubrication cycle time is finished (depends on the length of the line)

Control of the air pressure

The reliability and reliability of operation of the oil/air lubricator PRELUB has been confirmed for many years in a lot of applications. Nevertheless manometric switches can be mounted additional in the lubricating lines on customer's requirements. The evaluation is made directly by the machine control.

Accessories

Required accessories for the installation and commissioning such as tubing, pressure gauge and filtered lubricating oil are available.

Maintenance

Compressed air and lubricating oil must be pre-filtered as described in the operating instruction manual.

Replacement filter cartridges are available for both filter elements.

