

- Brief description:** Airless system for intermittent application of low viscose liquids from a distance without the addition of air.
- Main application range:** External MQL in simple, metal-cutting and chipless forming operations.
- Operating principle:** The liquid flows out of the reservoir into the piston chamber. The piston is accelerated by means of a compressed air impulse and shoots the liquid at high pressure through the nozzle.
- Adjustability:** Fluid volume at the PMC precise metering control dial (manual)
Optional: Pressure of piston actuation air (manual)
Switch on/off via drive (electric, pneumatic mechanic or by foot pedal)



Fig. P35/1 - Y03 -
- GLV - SH3

Technical Data:

Operating pressure	bar	3 – 8
Max. dosage quantity	ml/stroke	0.06 ¹⁾
Lubricoolant		Lubrimax [®] and others
Recommended viscosity	mm ² /s (at 40°C)	1 - 50 ²⁾
Max. distance	mm	750 ¹⁾
Dimensions of the base unit (ØxL) without reservoir		
P35/1-...-V	mm	Ø31 x 135
P35/1-...-GLV	mm	Ø31 x 270

¹⁾ Maximum values refer to water sa fluid

²⁾ Partly application-specific, depending on operating pressure, fluid, dosage quantity and dosage

System components:

1. Base / Base addition

- Compressed air-powered piston in aluminium housing Ø31, liquid seals of FPM construction.
- Free adjustability of the fluid volume (up to max. 0.06 ml/stroke) including an indication scale from 0.00 to 6.40 at the PMC.
- Seating 1/4" for reservoir 0.33-litre PA or push in connector Ø6 for fluid entry.
- Push in connector Ø4 for compressed air entry.
- Fixing bar Ø10 / Ø8.

2. Reservoir 0.33 to 27 litres available:

- Base assembly: Reservoir 0.33 litre PA with screw cap, ventilation plug, drainage sieve.
- Wall installation:
 - Reservoir 1.0-litre PE, with screw cap, ventilation hole, stopcock, feeding pipe L=1,500 and wall bracket (if required, with 2 x round magnet Ø57).
 - Reservoirs 6.0 to 27 litres from the Lubrimat series. See catalogue page 9.



Fig.: detail PMC dial

3. Drive electric, pneumatic, mechanic or pedal-operated option:

- Solenoid valve 3/2 way (120 NI/min) with auxiliary actuation (for occasional manual switching on/off).
- Coil with plug in 24V DC, 24V AC, 110V AC or 230V AC.
- Pneumatic valve 3/2 way (550 NI/min).
- Mechanic valves 3/2 way (700NI/min) as plunger, roller lever or knee roller lever.
- Pneumatic foot pedal switch 3/2 way (800 NI/min). If required, with protection cap.

5. Nozzle

- As standard multi link tube (Ø13, L=170) with full jet nozzle, suitable for comfortable positioning. If required, this version can be converted into the short version.
- Also available as a short version with the full jet nozzle (Ø13, L=32) installed directly on the base unit, in case no space for the multi link tube is given.



Fig.: P35/1 with multi link tube nozzle GLV



Fig.: P35/1 with short version nozzle V

6. Option

- Stand with switchable block magnet (55x50x80) or round magnet Ø80 and with articulated bar (L_{max}=250).
- Pressure reducing valve including manometer for improved regulation of spray distance and profile (only in conjunction with a stand)

Order codes:

0.-1. Base and addition	P35/1	airless system for one nozzle
2. Reservoir	Y03 Y1AW Y1AWR	0.33-litre PA (base assembly) 1.0-litre PE with stopcock, wall bracket (wall installation) 1.0-litre PE with stopcock, wall bracket and 2 x round magnet Ø57 further reservoirs (wall installation) 6.0 to 27 litres: order code see Lubrimat, catalogue page 12.
3. Drive	e...V.. pv3 M3SNC2000 M3RNC2000 M3KNC2000 F3 F3S	electric (24VDC, 24VAC, 110VAC oder 230VAC) pneumatic mechanic plunger valve, NC, with tube 2,000mm mechanic roller lever valve, NC, with tube 2,000mm mechanic knee roller lever valve, NC, with tube 2,000mm foot pedal switch, pneumatic foot pedal switch, pneumatic, with protection cap
5. Nozzle	GLV V	multi link tube with full jet nozzle, standard version full jet nozzle, short version
6. Option	SH3 SH4 ...DM	block magnet stand and articulated bar round magnet stand and articulated bar pressure reducing valve with manometer (only in conjunction with a stand)

Sample order code: P35/1 - Y1AW - e24VDC - GLV - SH3 - DM

