



DRAGON



**Motor driven gear pump
for automatic lubrication
systems**



Automatic Lubrication System

DRAGON

**GB
USA**



MOTOR DRIVEN PUMP for lubrication systems using mineral oil or fluid grease NLGI 000

Due to their compactness and flexibility, the **Dragon** series are particularly suitable for feeding lubrication systems in presses, machine tools, reduction units, guides, chains, and more.

The pump unit is a gear pump and there are two available sizes: the first has a flow rate of 350 cm³/min (21.3 cu.in./min), the second has a flow rate of 500 cm³/min (30.5 cu.in./min), and both operate at 1,500 rpm.

Thanks to a wide range of electric motors and reservoirs, the Dragon series can be adjusted according to the customers' requirements.

There are three basic versions available:

- For lubrication systems with restrictors and for circulation systems with operating pressure < 20 bar (290 psi) – system 01
- With a built-in release valve and for lubrication systems equipped with “direct response” feeding devices with operating pressure < 50 bar (735 psi) – system 33V
- For progressive lubrication systems and for circulation systems controlled by progressive feeding devices with operating pressure < 70 bar (1029 psi) – system 26

Maximum pressure:

- 70 bar (1029 psi) with intermittent running and a three-phase motor; 40 bar (588 psi) with a single-phase motor; working temperature +5 °C ÷ +40 °C (+41 °F ÷ +104 °F) ; working time max 5 min., with 1:1 pause time ratio.
- 30 bar (441 psi) with continuous running both with single-phase or three-phase motor; operating temperature + 5 °C ÷ + 40 °C(+41 °F ÷ +104 °F).

Pressure depends on lubricant, voltage and type of motor.

The system may only be used with mineral lubricating oil with a viscosity of between 15 ÷ 1000 cSt (77.31 ÷ 4628 SUS) or also with NLGI 000 grease by using a level indicator sensor.

“**Dragon**” pumps can be used with either an Integrated Electronic Controller (**VIP Controller**, with the possibility to transmit data via infra-red), or connected to separate electronic equipment.

ORDERING INFORMATION	
Part Number	Description
3901xxx	Pump for single-line (low pressure)
3902xxx	Pump for 33V line (with discharge)
3903xxx	Pump for Serial 26 Progressive System
3904xxx	Pump for 33V line (accessories included)
ACCESSORIES	
3291022	Adjustable pressure switch 20 ÷ 50 bar (294 ÷ 735 psi) (*)
3042098	Pressure switch nipple
20564	Manometer, pressure scale 0 ÷ 100 bar (0 ÷ 1470 psi)
20566	Manometer, pressure scale 0 ÷ 16 bar (0 ÷ 235.2 psi)
3085230	“T” fitting
1639076	VIP controller equipment (24 V AC/DC)
1639077	VIP controller equipment (110/220 V AC)

(*) Factory calibration: 30 bar (441 psi)

TECHNICAL CHARACTERISTICS	
Reservoir Capacity	3 lt (0.66 galls) in oil-proof transparent plastic 3 lt (0.66 galls) in aluminium with visual level indicator 6 lt (1.32 galls) in oil-proof transparent plastic 6 lt (1.32 galls) in varnished plate with visual level indicator
Compatible lubricants	Mineral oil 15-1000 cSt (77.31 ÷ 4628 SUS) Fluid grease NLGI 000
Storage temperature	-20 °C ÷ +65 °C (-4 °F ÷ +149 °F)
Electrical power	110 / 220 V AC 50 Hz mono phase 220 ÷ 440 V AC 50 / 60 Hz 3-phase
Absorbed consumption	90 W
Outlet signals	Minimum level contact max 220 V 3 A NO / NC
Working temperature	+ 5 °C ÷ + 60 °C (+41 °F ÷ +140 °F)
Working humidity	90% max relative humidity
Protection	IP 55
Pressure sound continuous level	< 70 dB (A)