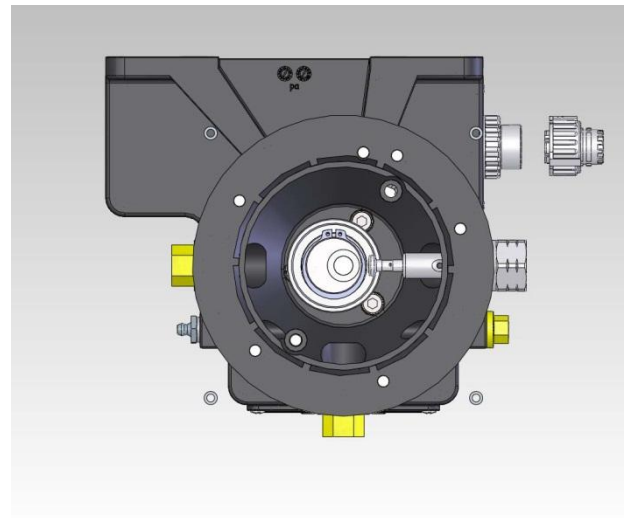
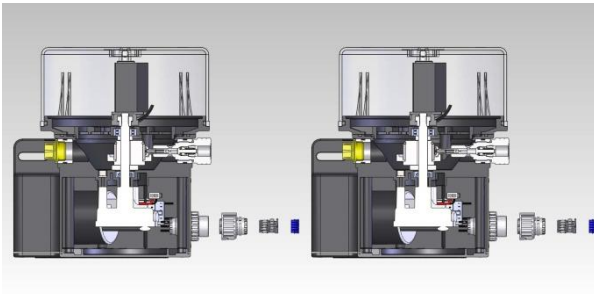


**ELECTRIC PUMPS  
GREASE (ILC-MAX-G)  
OR OIL (ILC-MAX-O)**

**APPLICATIONS**

*Ideally suitable for the automatic grease lubrication of all types of industrial machines and as a chassis lubrication pump for trucks, trailers, buses, construction and mechanical handling vehicles.*

*In conjunction with ILC DPA, DPM or DPX progressive deviders, more than three hundred greasing points can be automatically centralized from just a single grease pump.*



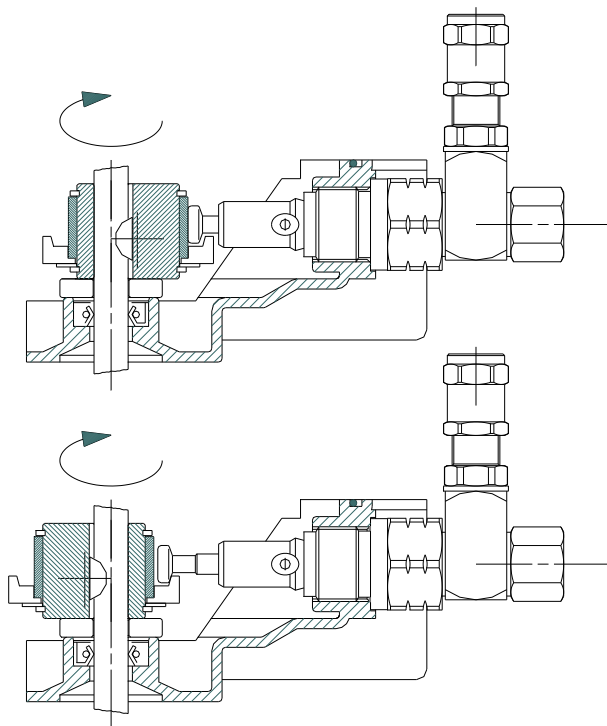
**OPERATION**

*The pumps are designed for intermittent or continuous operation to provide regular pre-programmed lubrication cycles as required for the various applications.*

*A direct-mounted electric geared motor drives an internal rotating cam, which can actuate up to three externally mounted pump elements.*

*Every pumping element has a relief valve to protect the system against over-pressure.*

*To have a bigger discharge it is possible to collect the three outlets from the pumping elements together in a single tube.*

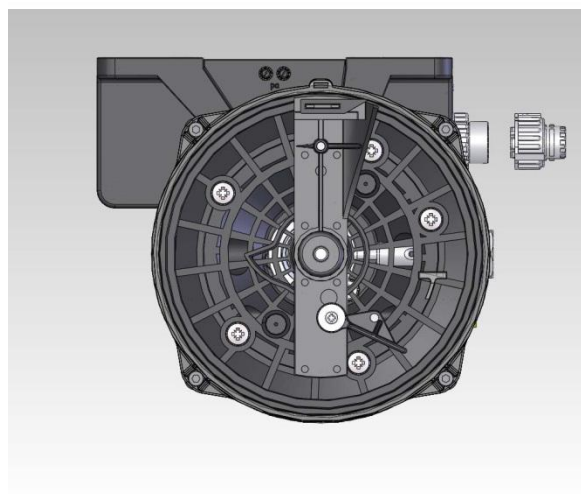
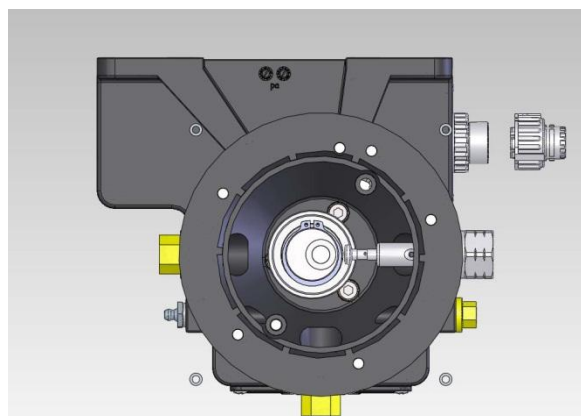
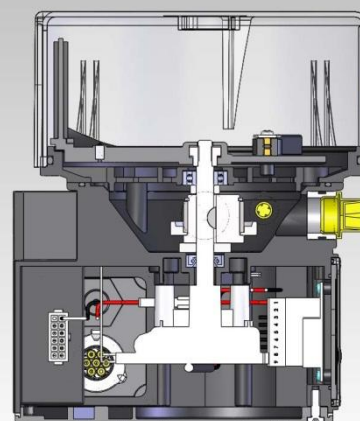


**ELECTRIC PUMPS**  
**GREASE (ILC-MAX-G)**  
**OR OIL (ILC-MAX-O)**

The transparent reservoir has 2 KG, 4 KG or 8 KG capacity and metallic reservoir has 5 KG.

The pumps can attain a maximum recommended operating pressure of 250 bar per outlet and will deliver up to 2.88 cc/minute per outlet.

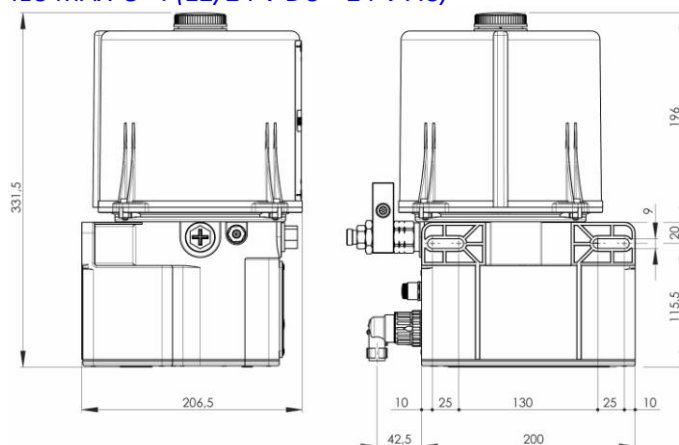
The internal drive shaft is coupled to a specially formed stirring paddle in the reservoir of the pump unit which ensures continuous priming of the pump element inlets, even with grease up to NLGI No. 2 consistency at ambient temperature down to -20 °C



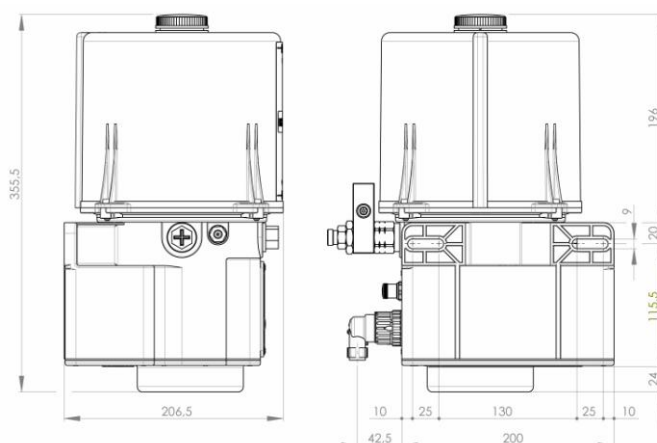
The gear motor is protected by means of an IP-56 protection degree covering (NYLON PA6 +30% FIBERGLASS). The seal is guaranteed from well-mounted "O"-ring.

The pumps can have an integrated electronic control timer built into the covering. The timer can be pre-programmed to automatically operate the pump with variable "working time" and "pause times".

## OIL ELECTRIC PUMP ILC-MAX-O 4 (12/24 V DC – 24 V AC)



## OIL ELECTRIC PUMP ILC-MAX-O 4 (115/230 V AC)



### TECHNICAL DATA

NUMBER OF OUTLETS	FROM 1 TO 3
DISCHARGE/ROPE WITH FIXED PUMPING ELEMENT	0.16 CC
DISCHARGE/ROPE WITH ADJUSTABLE PUMPING ELEMENT	0.01 – 0.16 CC
RPM	18
DISCHARGE/MIN WITH FIXED PUMPING ELEMENT	2.88 CC
DISCHARGE/MIN WITH ADJUSTABLE PUMPING ELEMENT	0.18 – 2.88 CC
SUITABLE LUBRICANTS	MINERAL OILS 50-1500 cSt
MAX. OPERATING PRESSURE	275 BAR (3993 PSI) ±10%
RESERVOIR CAPACITY	4 L - PLASTIC
TEMPERATURE	FROM - 20 °C TO + 80 °C
OUTLET CONNECTION	1 / 4" G
LOW LEVEL SWITCH	1 A 140 V AC – 200 V DC 10 W NO - Contact opens when reservoir is empty



## PROGRESSIVE SYSTEM PROGRESSIV SYSTEM

### HOW TO ORDER

**40.2.24AC.FST.G**

<b>RESERVOIR</b> <b>2</b> = 2 Kg transparent <b>4</b> = 4 Kg transparent <b>8</b> = 8 Kg transparent <b>5</b> = 5 Kg metallic	
<b>TENSION</b> <b>12DC</b> = 12 V DC <b>24DC</b> = 24 V DC <b>24AC</b> = 24 V AC <b>115V</b> = 115 V AC <b>230V</b> = 230 V AC	
<b>PUMPING ELEMENT</b> <b>F</b> = fixed discharge <b>R</b> = adjustable discharge	
<b>TIMER</b> <b>CT</b> = with timer <b>ST</b> = without timer	
<b>LUBRICANT</b> <b>G</b> = grease <b>O</b> = oil	

All the pumps are equipped with **lubricant low level switch** and grease pumps (not oil ones) with 2, 4 and 8 kg reservoir are equipped with **electrical control of motor rotation**.

**Models with timer** are equipped with 7-poles TYCO connector and 4-poles M12x1 one; **models without timer** are equipped with only 7-poles TYCO connector.

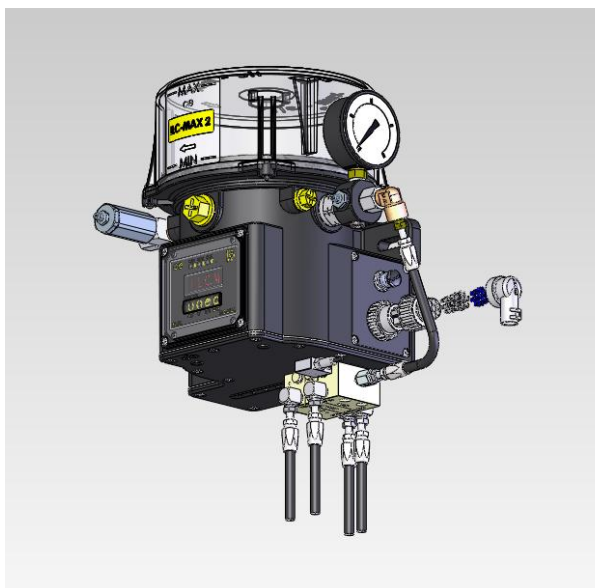
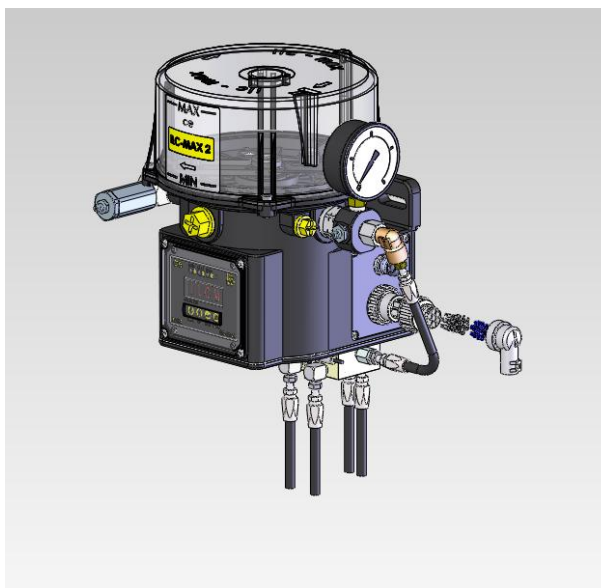
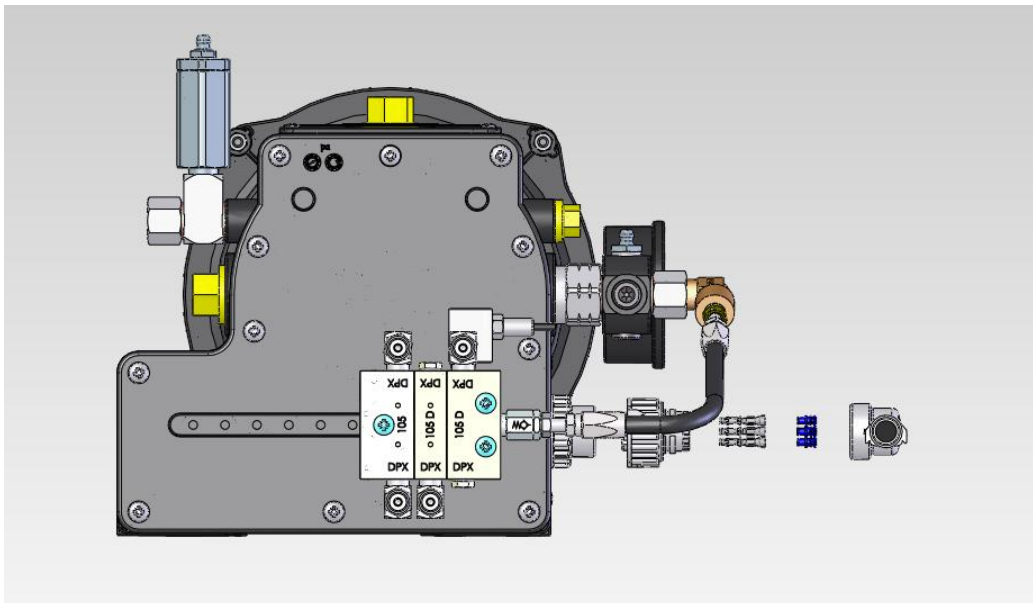
#### PUMP MOUNTING

Pumps must be secured in a vertical position by two bolts, nuts and washers through integrated mounting bracket of pump body

## ACCESSORIES

### DPX ASSEMBLED ON PUMP

*ILC-MAX is set up to be assembled with a DPX from 3 to 9 elements mounted directly under the pump base.*

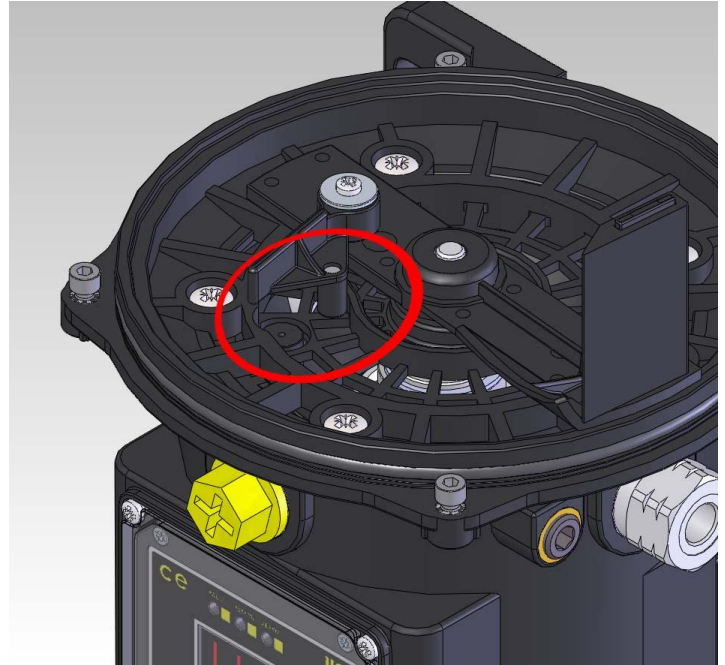




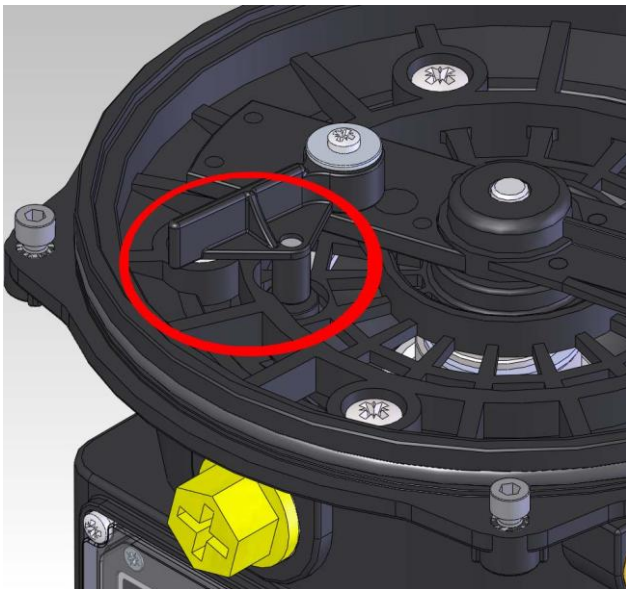
## LOW LEVEL SWITCH WITHOUT TIMER

Low level switch sensor is integrated in the bottom of the reservoir. A floating magnet mounted on the spatulator is kept in the small internal circumference when the reservoir is full and the spatulator rotates (Pic. 1).

When there's no grease the magnet ropes in the external circumference, passing on the low level sensor. A pulse (from close to open) is created at every revolution (Pic. 2).



Pic. 1



Pic. 2

Contact

Signal

Reservoir filled



Reservoir empty



## WIRES

### General conditions of connection

	Nominal voltage	Power absorption (load-dependent)	Power absorption (max.)	Pump starting current (max.)	Preconnected fuse (max.)
Vehicles application	24 V AC/DC	1,25 A <sup>2)</sup>	< 2,5 A	4,5 A	3 A <sup>3)</sup> <sup>4)</sup>
	12 V DC	2,4 A <sup>2)</sup>	< 5 A	9 A	5 A <sup>3)</sup> <sup>4)</sup>
Industrial application	24 V AC/DC <sup>1)</sup>	1,25 A <sup>2)</sup>	< 2,5 A	4,5 A	4 A <sup>4)</sup>
	12 V DC <sup>1)</sup>	2,4 A <sup>2)</sup>	< 5 A	9 A	6 A <sup>4)</sup>
	115 V AC	0,25 A <sup>2)</sup>	< 0,5 A	1 A	1 A <sup>4)</sup>
	230 V AC	0,125 A <sup>2)</sup>	< 0,25 A	1 A	1 A <sup>4)</sup>

<sup>1)</sup> Protective measures to applied for operation according to the intended purpose:

**Function-specific extra-low voltage with safe circuit-breaking**  
**Protective Extra Low Voltage (PELV)**

Standards: EN60204 part I: 1992/IEC204-1:1992, amended by  
DIN VDE 0100 part 410 / IEC 364-4-41:1992

<sup>2)</sup> Typical value for ambient temperature 25 °C and operating pressure 150 bar

<sup>3)</sup> Circuitbreaker acc. to DIN 72581 T.3

<sup>4)</sup> Conductor: cross-section 1,5 mm<sup>2</sup>, lenght ≤ 12 M