4. TECHNICAL DATA FOR PRODUCTS

POLIPUMP-2KG-(12-24-35) PUM-(12-24) VDC-(IND-NRUN)

An electric pump with integrated tank, POLIPUMP is designed to be used with pumping units.

The IND model is designed for industrial applications.
The NRUN model is designed for industrial vehicles (trucks, building and civil engineering works and farming vehicles).

1) TECHNICAL CHARACTERISTICS

Pumping system	Single-acting pumping elements with cam activation	
Drive assembly	CC motor with reduction gear	
Electrical supply	12 VDC	24 VDC
Electronic protection threshold for motor overload	0.6 A	
Net weight	3.4 kg (2.2 lb)	
Number of outputs/max/version	12 – 24 – 35	
Connection of pumping elements	Instantaneous for Ø 4 (5/32 inches)	
Nominal output per pumping element	0.02 cm^3/stroke RED (1 notch) 0.03 cm^3/stroke GREEN (2 notches) 0.04 cm^3/stroke YELLOW (3 notches) 0.08 cm^3/stroke BLUE (4 notches) 0.10 cm^3/stroke GREY (5 notches) 0.13 cm^3/stroke BLACK (6 notches)	
Max. discharge pressure	80 bars	
Tank capacity – **Standard model**	2 L (0.53 gallons)	
Tank capacity – **Model with follower plate**	4 L (1.06 gallons)	
Compatible grease (except silicone-based grease)	NLGI00 to NLGI2	
Operating temperature	-10°C to +60°C (+14°F to +140°F)	
Storage temperature	-20°C to +80°C (-4°F to +176°F)	
Sound level	< 70 dB (A)	
Minimum level indication	Hall effect sensor	
CONTROL PANEL CHARACTERISTICS		
Electrical supply	12 VDC – 24 VDC	
Operating temperature	-10°C to +60°C (+14°F to +140°F)	
Storage temperature	-20°C to +80°C (-4°F to +176°F)	
Characteristics	• Protection against motor overloads • Input power supply protection • Remote alarm signal • End of cycle control sensor	
Protection level	IP 65	
Relay alarm contact	NC (open during alarm) – Imax 5 A - Vmax 250 V – Pmax 60 W	

2) INSTALLATION OF PUMPING ELEMENTS AND PLUGS

The pumping elements are not supplied with the pump. They must be ordered separately depending on the number of lubrication points required and then installed prior to operation.
Each pumping element includes a colour code corresponding to the discharge volume and is simply be screwed into the appropriate outlet port. All unused ports must be blanked with the supplied plugs.

Positioning of pumping elements

Select a location for the first pumping element and then distribute the other elements in the outlet header ports according to the instructions in the table below and in the diagram (fig.1).

Number of outlets used	POSITION OF PUMPING ELEMENTS	Number of outlets used	POSITION OF PUMPING ELEMENTS	Number of outlets used	POSITION OF PUMPING ELEMENTS
Row 1		Row 2		Row 3	
1	1	13	13	25	25
2	1-7	14	13-19	26	25-31
3	1-5-9	15	13-17-21	27	25-29-33
4	1-4-7-10	16	13-16-19-22	28	25-28-31-34
5	1-2-4-7-10	17	13-14-16-19-22	29	25-26-28-31-34
6	1-3-5-7-9-11	18	13-15-17-19-21-23	30	25-27-29-31-33-35
7	1-2-4-5-7-9-11	19	13-14-16-17-19-21-23	31	25-26-28-29-31-33-35
8	1-2-4-5-7-8-10-11	20	13-14-16-17-19-20-22-23	32	25-26-28-29-31-32-34-35
9	1-2-3-5-6-7-9-10-11	21	13-14-15-17-18-19-21-22-23	33	25-26-27-29-30-31-33-34-35
10	1-2-3-4-5-6-7-9-10-11	22	13-14-15-16-17-18-19-21-22-23	34	25-26-27-28-29-30-31-33-34-35
11	1-2-3-4-5-6-7-8-9-10-11	23	13-14-15-16-17-18-19-20-21-22-23	35	25-26-27-28-29-30-31-32-33-34-35
12	1-2-3-4-5-6-7-8-9-10-11-12	24	13-14-15-16-17-18-19-20-21-22-23-24		

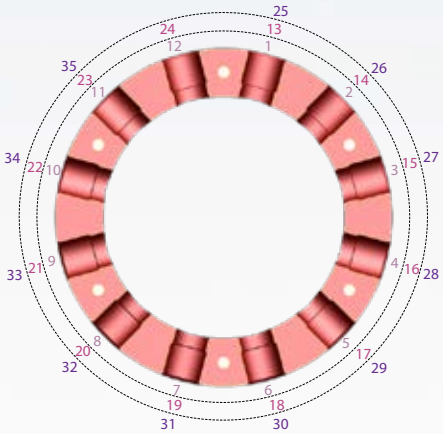
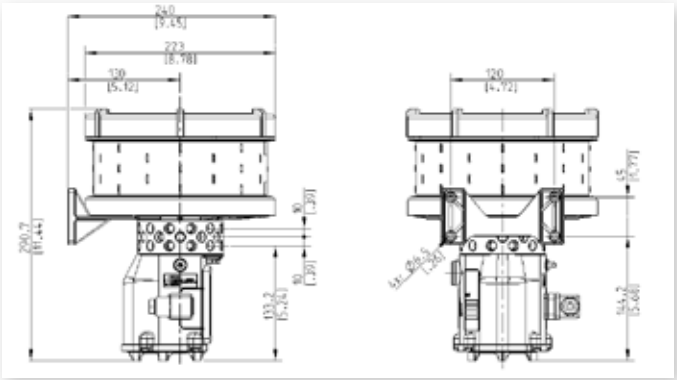


Fig.1: positioning of pumping elements depending on the number of outlets used.

Tighten the pumping elements (12 mm wrench) and the plugs (6 mm Allen key) applying a torque of 10 Nm.

3) ELECTRICAL CONNECTION DIAGRAM

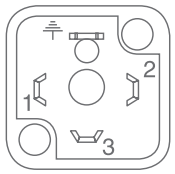
Dimensions



NRUN: model designed for industrial vehicles. The connection with general activation (NRUN) allows the use of the pump with the machine in closed-loop control. The pump operates only if the activation signal is present, otherwise it remains in standby mode; the external activation signal is a standard +5V logical signal.

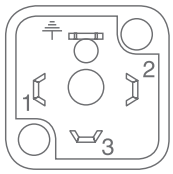
12 VDC-IND

1 = 12VDC +
2 = ALARM NO out
3 = ALARM COM out
⏚= 12VDC –



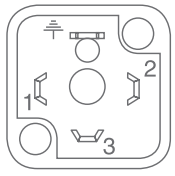
24 VDC-IND

1 = 24VDC +
2 = ALARM NO out
3 = ALARM COM out
⏚= 24VDC –



12 VDC-NRUN

1 = 12VDC +
2 = NRun in
3 = ALARM out
⏚= 12VDC –



24 VDC-NRUN

1 = 24VDC +
2 = NRun in
3 = ALARM out
⏚= 24VDC –