

## CHARACTERISTICS

- DUAL PUMP MODULES AS STANDARD FOR MAXIMUM UPTIME AND REDUNDANCY.
- HIGH PRESSURE AND FLOW RATE FOR VERY EXTENSIVE SYSTEMS
- 380 CM<sup>3</sup>/MIN (2x 190 CM<sup>3</sup>/MIN PER MODULE)
- 400 BAR (5800 PSI)
- ELECTRICAL DUAL LINE INVERTER INTEGRATES DIRECTLY ONTO OUTLET.
- MINIMUM LEVEL CAPACITANCE SWITCH AND VISUAL MAXIMUM LEVEL AS STANDARD.
- HANDLES-GREASE NLGI 2.
- SUPPLIED ON A FIXING PALLET AS STANDARD FOR EASE OF TRANSPORTATION- AND INSTALLATION.
- IO-LINK  
ULTRASONIC SENSOR.

## APPLICATIONS

- HEAVY DUTY APPLICATIONS IN DEMANDING ENVIRONMENTS
- STEEL INDUSTRY
- PULP & PAPER
- CEMENT WORKS
- STEEL PLANT
- OFF-SHORE
- LARGE CRANES AND LOADING EQUIPMENT

## ELECTRIC PUMP SOLUTION SUMO II

### THE FLEXIBLE HIGH PERFORMANCE HEAVY DUTY

#### DUAL PUMPING MODULE

The **SUMO II** pump is the ideal electric DropsA pump for use with dual-line systems.

The two pumps installed using the dual configuration guarantees a maximum pressure of 400 bar in redundancy mode. Configured in this way, it also works even if one of the two pumps should stop.

#### INSTRUMENTATION AND MODULES

SUMO II can be equipped with sophisticated additional modules to adapt the pump to complex applications using DropsA standard products.

#### QUICK SWAP SYSTEM

Both **PUMPING MODULES** can be quickly replaced. In fact, it not necessary to take any action on the pipework and connections, reducing downtime during maintenance to practically zero.

#### DUAL LINE OR SINGLE LINE IS EASY

The outlet plate fixing system has both Pressure and Return ports. The outlets are directly compatible with Dropsa's electrical or pneumatic line inverters (including Modular version).



## DUAL LINE SYSTEM

### SIMPLE AND RELIABLE PARTICULARLY IN HARSH ENVIRONMENTAL

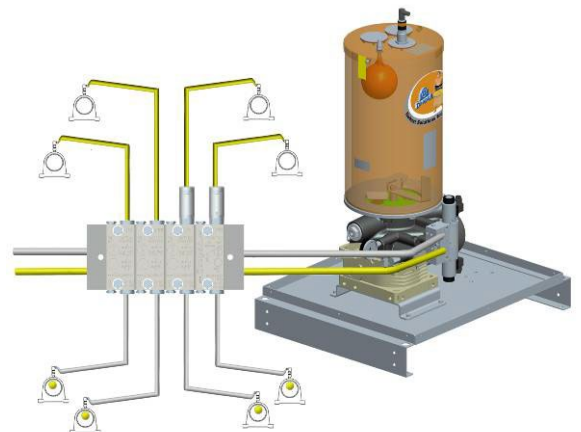
The lubrication systems designed with the dual-line system are generally used for lubricating several points on over-size machinery and in uncomfortable functioning conditions.

The system can grow to a very complex one with a length that often can exceed 60 meters. The large section of pump packages together with many custom design options allows any lubrication system to be developed reliably and cost-effectively.

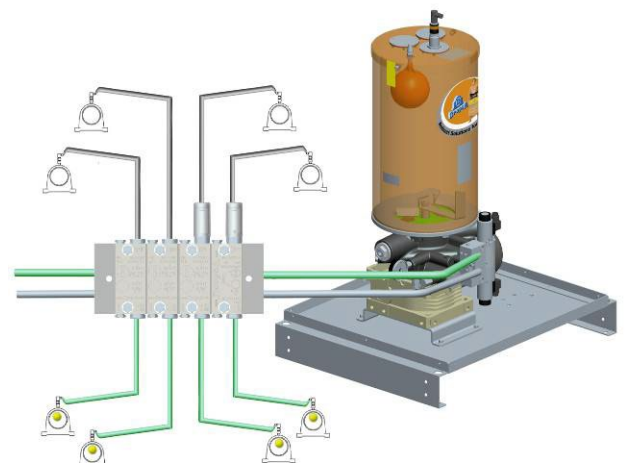
### ADVANTAGES:

1. Can be used at high pressures.
2. Easily to expand or modify the system
3. The modular elements allow for the element to be changed quickly without disconnecting the pipework.
4. In the event that a point to be lubricated becomes blocked or is not adequately lubricated, the rest of the system is not influenced and continues to operate normally.

### PRESSURISATION LINE 1



### PRESSURISATION LINE 2



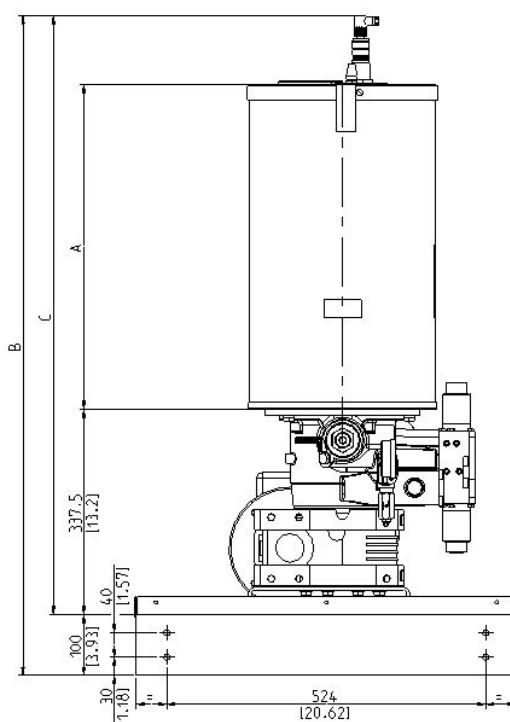
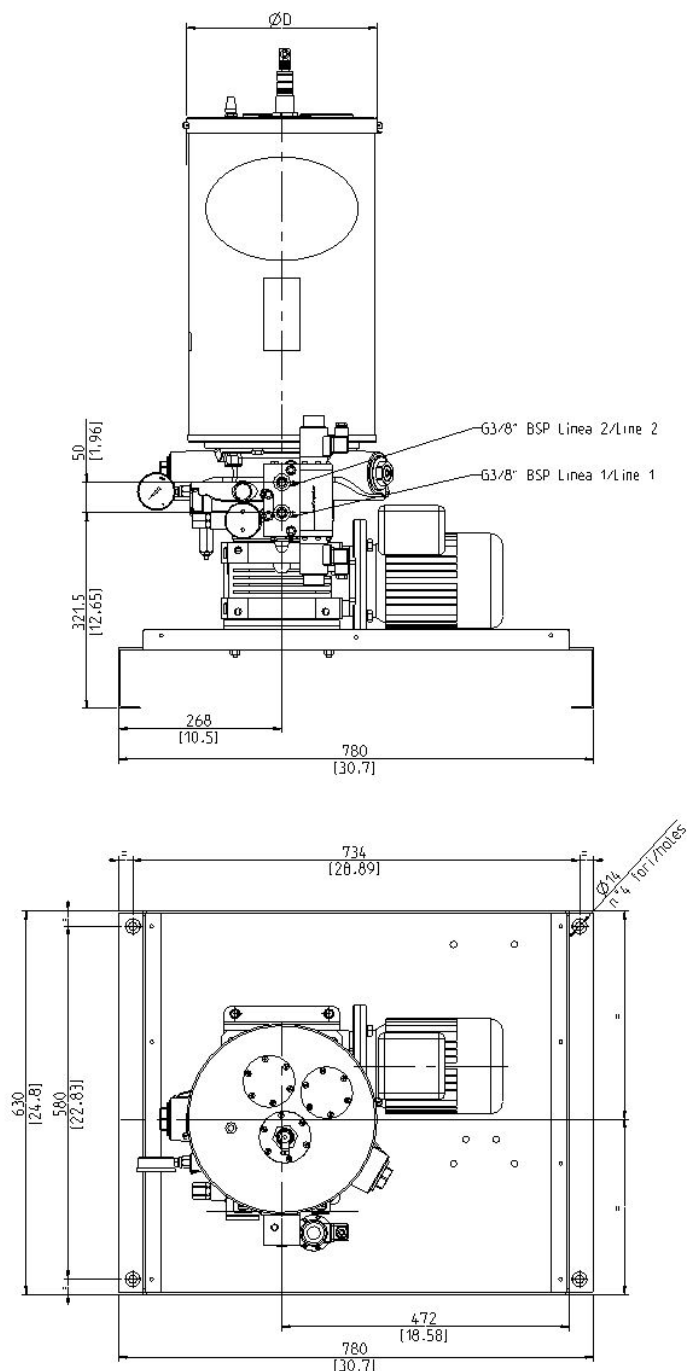


## TECHNICAL INFORMATION

### TECHNICAL CHARACTERISTICS

|                                    |   |
|------------------------------------|---|
| Max pressure                       | 5800 psi (400 bar)  |
| Output Flow Delivery               | 380 cm <sup>3</sup> / min (22.8 cu. in/min) total (standard)<br>190 cm <sup>3</sup> (11.59 cu. in) single pumping |
| Operating Temperature              | - 10 ÷ + 50 °C (+14÷122F)   |
| Operating Humidity                 | 90% max   |
| Protection grade                   | IP 55   |
| Viscosity at operating temperature | Mineral oil lubricants Min. 32 cSt max. 1000 cSt  |

## DIMENSIONS



|          | 30 Kg |       | 100 Kg |       |
|----------|-------|-------|--------|-------|
|          | mm    | in    | mm     | in    |
| <b>A</b> | 533.5 | 21    | 983.5  | 38.7  |
| <b>B</b> | 1080  | 42.5  | 1530   | 60.2  |
| <b>C</b> | 980   | 38.58 | 1430   | 56.3  |
| <b>D</b> | 313   | 12.32 | 413    | 16.25 |



## ORDERING INFORMATION

Note: The pump's ordering part number is made up of 11 digits

| SUMO II                        |  |                                 |         | Standard  |    |       | Optional |    |    |     |     |
|--------------------------------|--|---------------------------------|---------|-----------|----|-------|----------|----|----|-----|-----|
|                                |  |                                 |         | Data base | 4° | 5°/6° | 7°       | 8° | 9° | 10° | 11° |
|                                |  |                                 |         | 245       | 0  | 00    | 0        | 0  | 0  | 0   |     |
|                                | Description  | Part. No.                       | CODE    |           |    |       |          |    |    |     |     |
| Reservoir                      | -  | -                               | 0       |           |    |       |          |    |    |     |     |
|                                | 30 kg  | 0295080                         | 1       |           |    |       |          |    |    |     |     |
|                                | 100 kg   | 0295090                         | 2       |           |    |       |          |    |    |     |     |
| Triphase electric motor        | Motor not present  | -                               | 00      |           |    |       |          |    |    |     |     |
|                                | STANDARD IE3<br>230/400V 50Hz - 280/480V 60Hz                          | 3301081                         | 01      |           |    |       |          |    |    |     |     |
|                                | 440 V 60 Hz  | 3301650                         | 02      |           |    |       |          |    |    |     |     |
|                                | 440 V 60 Hz with anti-condensation heater 110V AC                      | 3301651                         | 03      |           |    |       |          |    |    |     |     |
|                                | 460 V 60 Hz  | 3301652                         | 04      |           |    |       |          |    |    |     |     |
|                                | 575 V 60 Hz  | 3301653                         | 05      |           |    |       |          |    |    |     |     |
|                                | 500 V 50 Hz  | 3301654                         | 06      |           |    |       |          |    |    |     |     |
|                                | 525 V 50 Hz  | 3301655                         | 07      |           |    |       |          |    |    |     |     |
|                                | 550 V 50 Hz  | 3301656                         | 08      |           |    |       |          |    |    |     |     |
|                                | 380 V 50/60 Hz   | 3301659                         | 09      |           |    |       |          |    |    |     |     |
|                                | UL and CSA standard with IE3 230/ 400V 50 Hz<br>280/480V 60Hz          | 3301528                         | 50      |           |    |       |          |    |    |     |     |
|                                | 440 V 60 Hz  | 3301670                         | 51      |           |    |       |          |    |    |     |     |
|                                | 460 V 60 Hz  | 3301671                         | 52      |           |    |       |          |    |    |     |     |
|                                | 460V 60Hz with anti-condensing heater 120V                             | 3301556                         | 53      |           |    |       |          |    |    |     |     |
|                                | 575 V 60 Hz  | 3301672                         | 54      |           |    |       |          |    |    |     |     |
|                                | 500 V 50 Hz  | 3301673                         | 55      |           |    |       |          |    |    |     |     |
|                                | 550 V 50 Hz  | 3301674                         | 56      |           |    |       |          |    |    |     |     |
|                                | UL and NEMA standard 230/460V 60 Hz                                    | On request                      | 80      |           |    |       |          |    |    |     |     |
|                                | Pneumatic motor  |                                 | 3301539 |           |    |       |          |    |    |     | 95  |
|                                |  | Inverter NOT PRESENT            | -       |           |    |       |          |    |    |     | 0   |
| 4/3 Valve                      | 24 V DC  | 0083550                         | 1       |           |    |       |          |    |    |     |     |
| 4/2 Electromagnetic inverter   | 24 V DC  | 0083560                         | 2       |           |    |       |          |    |    |     |     |
| 4/2 electro pneumatic inverter | 24 V DC  | 0083580                         | 3       |           |    |       |          |    |    |     |     |
| Hydraulic inverter             |  | 0086450                         | 4       |           |    |       |          |    |    |     |     |
| Optional                       |  |                                 |         |           |    |       |          |    |    |     |     |
| Minimum Level                  | Laser level standard 24V cc Out NO e NC (1 threshold)                  | 0295131                         | 0       |           |    |       |          |    |    |     |     |
|                                | Laser with 2 outlets digital configurable and 4÷20mA                   | 0295130                         | 1       |           |    |       |          |    |    |     |     |
|                                | * Float Reed for oil 30 kg   | 0295150+3130138                 | 2       |           |    |       |          |    |    |     |     |
|                                | * Float Reed for oil 100 kg  | 0295160+3130138                 | 3       |           |    |       |          |    |    |     |     |
|                                | ** IO-Link ultrasonics<br>and/or programmable IO-Link switching output | 0295202                         | 4       |           |    |       |          |    |    |     |     |
| Maximum Level                  | Floating visual level  | 0295100                         | 0       |           |    |       |          |    |    |     |     |
|                                | Laser 24V cc Out NO and NC (1 threshold)                               | 0295131<br>(For 30 kg - 100 kg) | 1       |           |    |       |          |    |    |     |     |
|                                | ** IO-Link ultrasonics<br>and/or programmable IO-Link switching output | 0295202                         | 2       |           |    |       |          |    |    |     |     |
| Heating Band                   | Heating Band NOT PRESENT   | -                               | 0       |           |    |       |          |    |    |     |     |
|                                | 100 kg Pump Heating Band   | 0295065                         | 1       |           |    |       |          |    |    |     |     |
|                                | 30 kg Pump Heating Band  | 0295066                         | 2       |           |    |       |          |    |    |     |     |
| Pumping elements               | The pump is equipped with 2 pumping elements<br>with fixed flow rate   | 0296090                         | 0       |           |    |       |          |    |    |     |     |
|                                | 1 pumping element with fixed flow rate                                 | 0296090+0295049                 | 1       |           |    |       |          |    |    |     |     |



\* The floating switch levels for oil signal both the minimum and the maximum level.

\*\* For blue greases, only the sensor specified in the table must be used.

| OPTIONAL                       |  | CODES   |
|--------------------------------|--|---------|
| Oil conversion                 | Min/max oil level float kit 30 Kg (66lb)   | 0295150 |
|                                | Min/max oil level float kit 100 Kg (220lb)   | 0295160 |
|                                | Filling cap with filter  | 3130138 |
| Terminal Box bracket           | Bracket for installing a terminal wiring box onto the base pallet                    | 3044455 |
| Terminal                       | Terminal box   | 0291655 |
| Electrical control box Bracket | Bracket for installing a control box onto the base pallet                            | 3044456 |
| Metal pallet                   | Metal Pallet used as the base of the packaging and also for installation of the pump | 0297150 |

| SPARE PARTS   |  | CODES    |
|---|--|----------|
| Motors  | 3Ph - 0,75 Kw IE3- 230Δ/400Y 50Hz 280Δ/480Y 60Hz         | 3301081  |
|   | 3Ph UL e CSA - 0,75 Kw IE3- 230Δ/400Y 50H 280Δ/480Y 60Hz | 3301528  |
| Reducer i=40  |  | 3301608  |
| Maximum mechanical level kit 30 and 100 Kg (grease)               |  | 0295100  |
| Laser probe assembly 30÷100 Kg - 24V cc Out NO e NC (1 threshold) |  | 0295131  |
| Laser level kit 24V cc Out 4÷20mA/2 NO (4 thresholds) – 30 Kg     |  | 0295130  |
| Laser level kit 24V cc Out 4÷20mA/2 NO (4 thresholds) – 100 Kg    |  |          |
| Grease loading filter   |  | 0295009  |
| Stirring paddle filter  |  | 0297155  |
| O-ring reservoir  |  | 3190485  |
| Bypass  |  | 0234815  |
| Pressure gauge 0 - 600 Bar  |  | 3292171  |
| Pumping*  |  | 0296090C |
| Metallic pallet   |  | 0297150  |

**\*Attention:**

for pump with pumping element marked "A" the order code is 0296090C

for pump with pumping element without marking, the order code is 0296080C

Info Distributor: