

## OIL AND GREASE LUBRICATION FOR HEAVY INDUSTRY

### CHARACTERISTICS

- DUAL PUMP MODULE
- MINIMUM LASER LEVEL AS STANDARD
- "QUICK SWAP" PUMP MODULE: EASY OUTPUTS SUBSTITUTION WITHOUT DISRUPTION TO PIPE-WORK DURING PUMP MAINTENANCE
- COMPATIBLE WITH: - 02 SYSTEM - SERIES 26
- RESERVOIR CAPACITY: 10 KG, 30 KG
- FLOW:  
25 cm<sup>3</sup>/MIN (1.52 CU.INCH/MIN) (WITH 1 PUMP MODULE)  
50 cm<sup>3</sup>/MIN (3.05 CU.INCH/MIN) (WITH 2 PUMP MODULES)
- WORKING TEMPERATURE: - 5°C TO +50 °C
- HEATING BAND

The **mini-SUMO** Pump is ideal for those applications that use Series 26 - progressive system and 02 Dual Line System. It is designed to feed oil and grease lubrication systems and is compatible with greases with a maximum NLGI grade of 2.

The dual module version guarantees a flow of 50 cm<sup>3</sup>/min, up to a maximum pressure of 380 bar in redundancy.

When fitted with two pump modules, the pump continues to deliver grease at maximum pressure even if one pump module becomes ineffective.

The Mini-SUMO is usually used to lubricate multiple points on large machines, in difficult operating conditions.



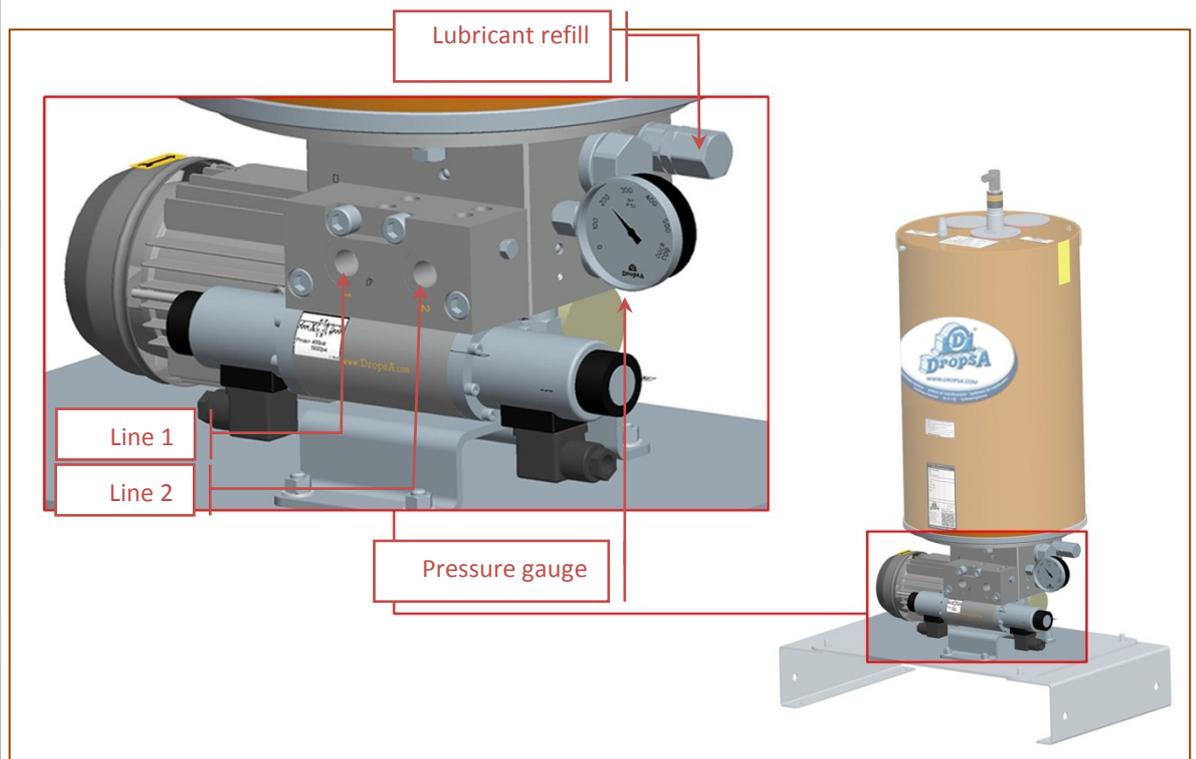
### ZERO DOWNTIME DURING PUMP MAINTENANCE

The QUICKSWAP SYSTEM allows quick replacement of both PUMP MODULES located on the right-hand side of the pump simply by removing and replacing with new ones. No pipe work needs to be disrupted and this means lower possibility of contamination.

### PUMP SYSTEM EQUIPPED WITH ELECTROMAGNETIC INVERTER FOR DUAL LINE (OPTIONAL)

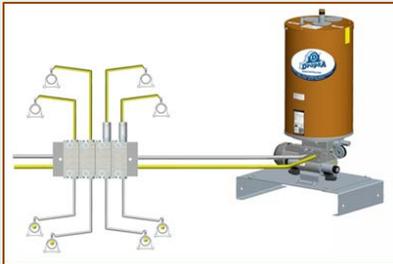
### APPLICATIONS

- APPLICATIONS IN HEAVY INDUSTRY AND IN CHALLENGING ENVIRONMENTS
- PULP & PAPER
- STEEL INDUSTRY



## APPLICATION EXAMPLE

### DUAL LINE SYSTEM

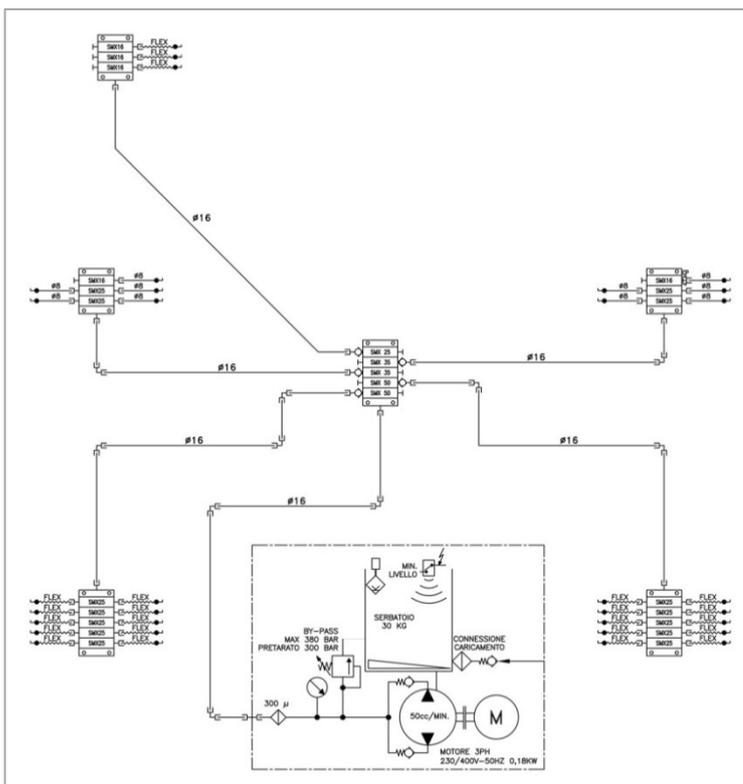
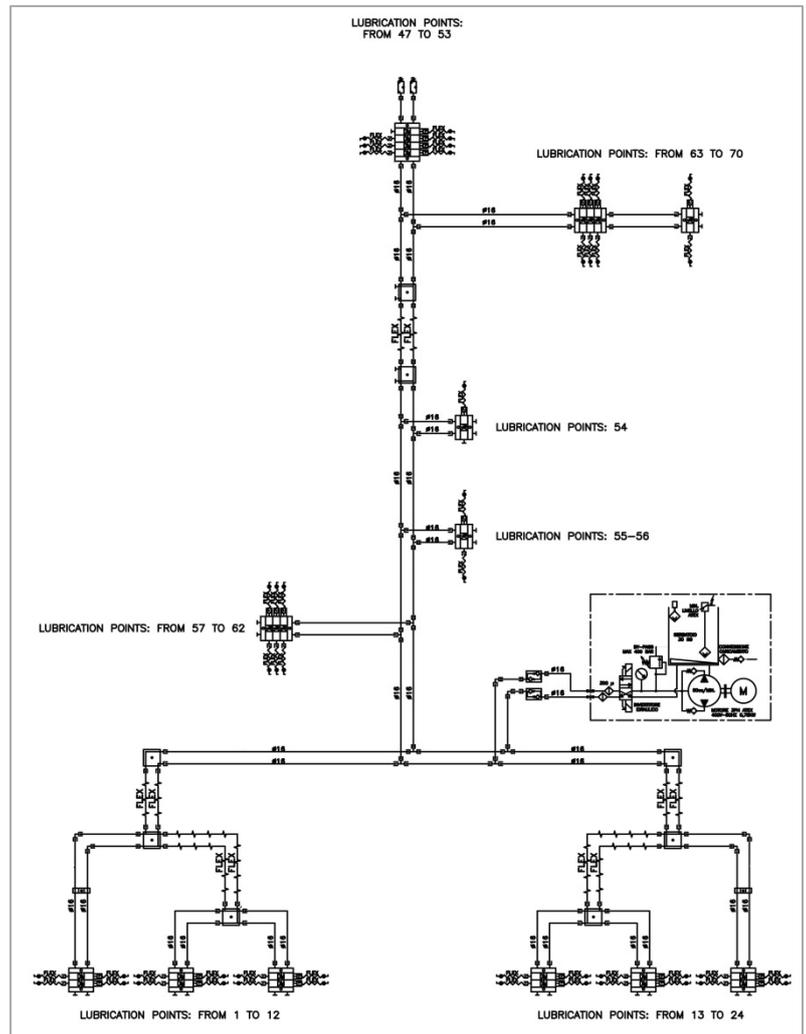


Installations built using this system are typical of large machines, particularly machinery that operates in harsh operating conditions and in damp or dusty environments.

The Mini-SUMO pump combined with **Dual Line Dividers** form the famous **O2** system. Thanks to the two lubricant supply lines, this installation can cover lengths of up to 60 metres, making it ideal for over-size machines.

The DM DropsA pumps combined with the Mini-SUMO pump are available in two versions:

- MODULAR BASE, formed by MODULAR BASES, separate from each other, plus the DIVIDER VALVES (Reference Doc. C1081P)
- SOLID BASE, made up of a MONOBLOCK base onto which the DM/DMM valves are fitted. (Reference Doc. C2263P)



### PROGRESSIVE SYSTEM

Installations built using this system use only one line to deliver the lubricant, allowing total control of the installation by monitoring devices.

In the progressive system, the pump is combined with the extensive series of “progressive” dividers. An installation usually comprises one master divider that supplies the connected dividers.

The following range of dividers is available:

- SMX, SMX stainless steel, SMO
- nP- nano Progressive, Np aluminium
- nPr+ - nano Progressive replaceable
- SMP and SMPMP

*(Progressive system Ref. documents DropsA SMX C2104PI - nP C2213PI - nPr+ C2220PI - SMP C2071PI)*

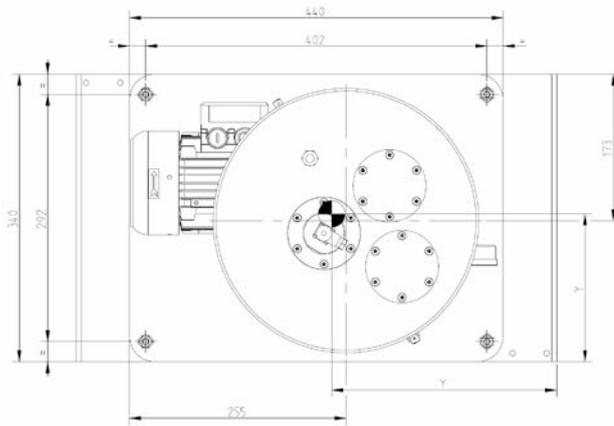
## TECHNICAL SPECIFICATIONS

### Electric Motor

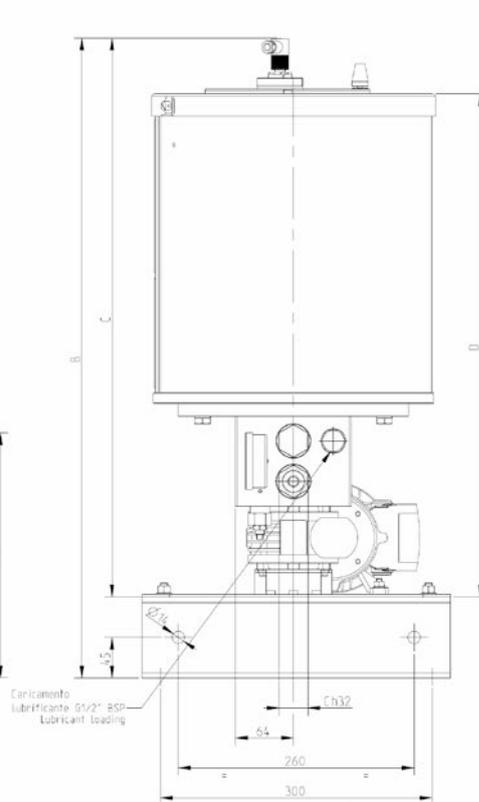
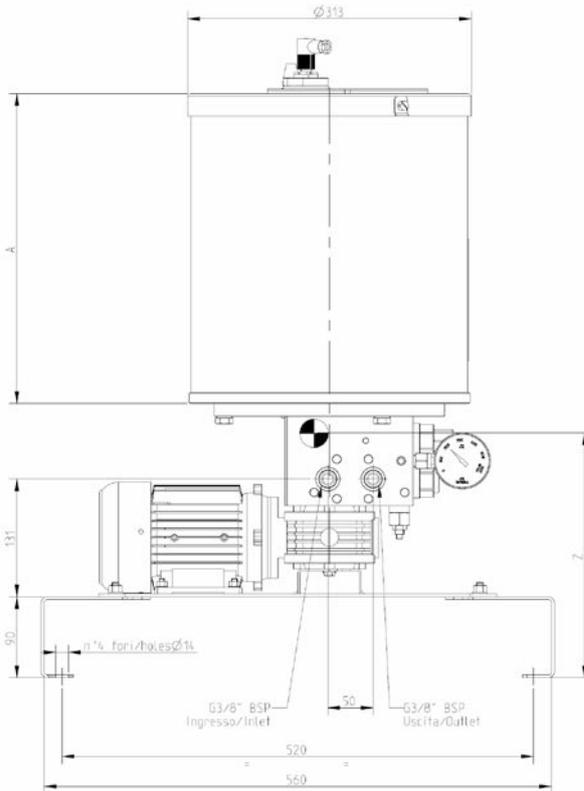
**3PH:** 0.18 Kw (50 Hz) - 0.20 Kw (60 Hz)  
 230 - 276 V; 400 - 480 V  
 50 Hz (1400 rpm) - 60 Hz (1680 rpm)  
**1PH:** 110 V 50 Hz (1370 rpm)  
 230 V 50 Hz (1370 rpm)  
**24 V CC** 2800 rpm

<b>Pumping system</b>	Piston
<b>Max working pressure</b>	380 bar
<b>Reservoir capacity</b>	10 L (2,6 USA Gal) or 30 L (7,9 USA Gal)
<b>Flow</b>	25 cc/min (per pump)
<b>Return Port</b>	G 3/8" BSP
<b>Outlet Port</b>	G 3/8" BSP
<b>Refill Point</b>	G 1/2" BSP
<b>Working temperature</b>	-5 ÷ + 50 °C
<b>Lubricants allowed</b>	Mineral oil 32÷1000 cSt/ Grease NLGI2

### DIMENSIONS (NOT TO SCALE)



	10 Kg	30 Kg
<b>A</b>	344,5	533,5
<b>B</b>	803	994
<b>C</b>	688	879
<b>D</b>	577	768
<b>Z</b>	275	325
<b>X</b>	265	265
<b>Y</b>	175	175





## ORDER INFORMATION

1° | 2° | 3° | 4° | 5° | 6°

### MINISUMO PUMP Order CODE

		DESCRIPTION	DROPSA CODE	CODE							
STANDARD VERSIONS		MINISUMO GREASE Pump, 10 kg, 3ph-0.18kw	2487000	0	0	0	0	0	0	0	
		MINISUMO GREASE Pump, 10 kg, 1ph-0.25kw - 110V	2487010	0	0	0	0	0	0	0	
		MINISUMO GREASE Pump, 10 kg, 1ph-0.25kw -230V	2487011	0	0	0	0	0	0	0	
		MINISUMO GREASE Pump, 10 kg, 24V dc	2487012	0	0	0	0	0	0	0	
		MINISUMO GREASE Pump, 30 kg, 3ph-0.18kw	2487001	0	0	0	0	0	0	0	
		MINISUMO GREASE Pump, 30 kg, 1ph-0.25kw - 110V	2487013	0	0	0	0	0	0	0	
		MINISUMO GREASE Pump, 30 kg, 1ph-0.25kw -230V	2487014	0	0	0	0	0	0	0	
		MINISUMO GREASE Pump, 30 kg, 24V dc	2487015	0	0	0	0	0	0	0	
		MINISUMO OIL Pump, 10 kg, 3ph-0.18kw	2487050	0	0	0	0	0	0	0	
		MINISUMO OIL Pump, 10 kg, 1ph-0.25kw - 110V	2487060	0	0	0	0	0	0	0	
		MINISUMO OIL Pump, 10 kg, 1ph-0.25kw -230V	2487061	0	0	0	0	0	0	0	
		MINISUMO OIL Pump, 10 kg, 24V dc	2487062	0	0	0	0	0	0	0	
		MINISUMO OIL Pump, 30 kg, 3ph-0.18kw	2487051	0	0	0	0	0	0	0	
		MINISUMO OIL Pump, 30 kg, 1ph-0.25kw - 110V	2487063	0	0	0	0	0	0	0	
		MINISUMO OIL Pump, 30 kg, 1ph-0.25kw -230V	2487064	0	0	0	0	0	0	0	
		MINISUMO OIL Pump, 30 kg, 24V dc	2487065	0	0	0	0	0	0	0	
Minimum Level		STANDARD GREASE VERSION with Laser Sensor 24V dc Out NO and NC (1 threshold)	0295131 (per 10/30 kg)	0	from 0 to 9	from A to Z	from 0 to 9	from A to Z	from 0 to 9		
		STANDARD OIL VERSION with Reed Float Switch	0295151 (per 10 kg) 0295150 (per 30 kg)								
	Variations	Laser min-max level kit 24V dc Out 4-20mA/2 NO (4 thresholds)	0295130	2							
		10kg pump ultrasound level kit	0295140	3							
		30 kg pump ultrasound level kit									
		10 kg (250V ac) capacitive level kit	0295123	5							
		30 kg (250V ac) capacitive level kit	0295121	6							
Maximum Level		STANDARD GREASE VERSION	0295100 (per 10 kg e 30 kg)	0							
		STANDARD OIL VERSION with Reed float switch	0295151 (per 10 kg) 0295150 (per 30 kg)								
	Variations	Laser sensor 24V dc Out NO and NC (1 threshold)	0295131 (per 10 kg e 30 kg)	A							
Pump Elements		STANDARD ONE FIXED FLOW RATE PUMP ELEMENT	0297010 + 0297017	0							
		Two fixed flow rate pump elements	0297010-0297010	1							
Electromagnetic Change-over Valve with manifold	Variations	STANDARD NOT PROVIDED		0							
		24 V DC	0083560	A							
		110 V AC	0083491	B							
		230 V AC	0083492	C							
Electro-pneumatic changeover valve	Variations	380 V AC	0083493	D							
		24 V DC	0083494	G							
		24 V AC	0083495	H							
		110 V AC	0083496	J							
		230 V AC	0083497	K							
Hydraulic			0086450	L							
Heating band	Variations	STANDARD NOT PROVIDED		0							
		Heating band for 10/30 kg 110V-150W pump	0295066	1							
		STAINLESS STEEL Heating band for 10/30 kg 230V-150W pump	0295103	2							

### OPTIONAL

Oil conversion	Oil float min/max level kit 10 Kg (66lb) + Filling cap with filter	0295151+3130138
	Oil float min/max level kit 30 Kg (66lb) + Filling cap with filter	0295150+3130138
Terminal board kit	Terminal board support to assemble on board the metal pallet	3133906

Distributor Info:

C2158PE WK 03/17

Dropsa products can be purchased from Dropsa subsidiaries and Dropsa sales representatives, visit site [www.dropsa.com/contact](http://www.dropsa.com/contact) or write to [sales@dropsa.com](mailto:sales@dropsa.com)