

## CARACTERISTICS

- MUCH CONTROL AND MONITORING OF DUAL LINE SYSTEM.
- FLOW MONITORING IS THEREFORE COMPLETELY INDEPENDENT ON TEMPERATURE, VISCOSITY AND PRESSURE.

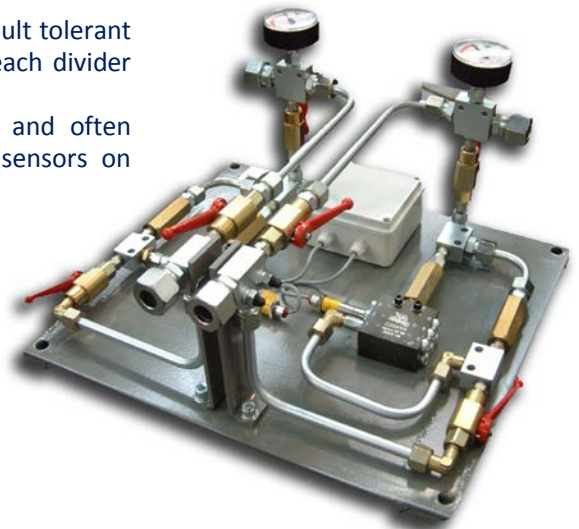
## DLFMP DUAL LINE FLOW MONITOR PANEL

THE DROPSA DLFMP DUAL LINE FLOW MONITOR PANEL ALLOWS YOU TO MONITOR EXACTLY HOW MUCH LUBRICANT IS BEING INJECTED INTO YOUR DUAL LINE SYSTEM.

Dual line systems are very reliable and fault tolerant centralized lubrication system because each divider valve is working in parallel. The drawback is that it is very costly and often impractical to install spool monitoring sensors on every single divider.

Therefore if one branch of the system becomes blocked it is often difficult to monitor without regular inspection of the turrets.

In many cases turrets are not even installed because of the aggressive nature of the environment.

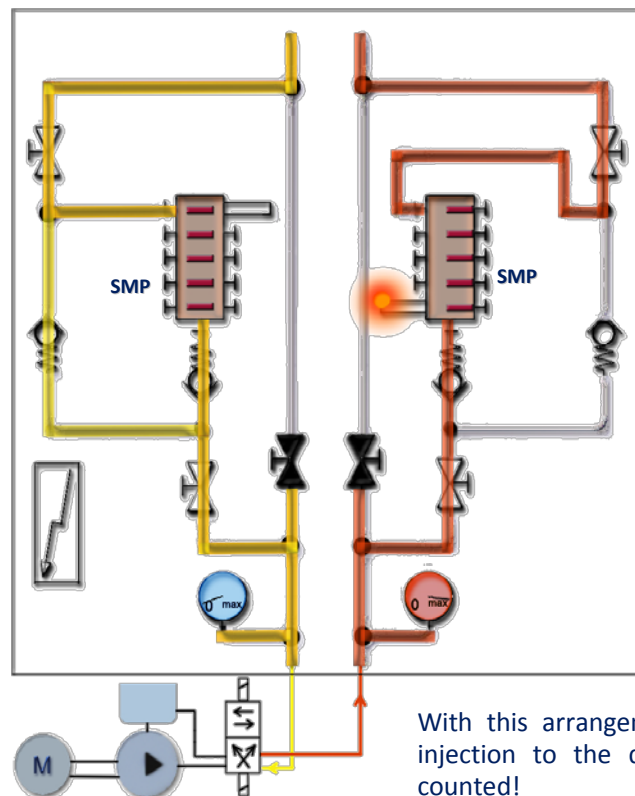


### THE DLFMP SOLUTION: (DUAL LINE FLOW MONITOR PANEL)

The Dropsa DLFMP now allows total monitoring of dual line system. It can be piped into the dual line system anywhere and measures the amount of flow being injected downstream.

### OPERATING PRINCIPLE

Each DLFMP is fitted with two SMP Volumetric Progressive units that work positive volumetric displacement. Each SMP unit monitors one of the two injection lines.



Flow monitoring is therefore completely independent on temperature, viscosity and pressure.

When the Dual line system inverts and the lines are vented the residual pressure and small quantity of return flow is channeled via a bypass check valve arrangement therefore excluding the return flow from being counted or interfering with the SMP flow monitor.

With this arrangement, only the flow being injection to the divider valves is therefore counted!

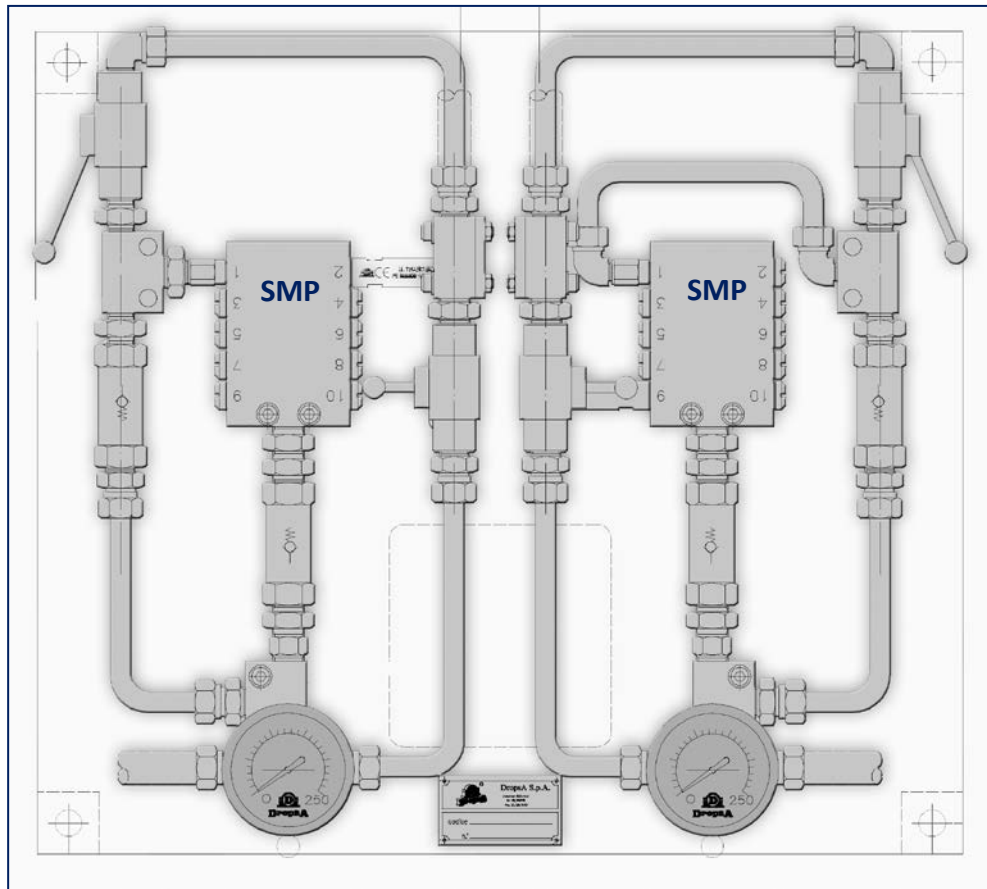
## APPLICATIONS

- SEGMENTS OF CONTINUOUS CASTING
- PAPER MACHINES
- STEEL PLANTS
- CEMENT WORKS
- LARGE CRANES AND
- LOADING EQUIPMENT



# FLOW MONITOR

Typical applications in the steel industry can see the unit installed either immediately after the pump system or, more commonly, upstream of each segment.



The SMP units are fitted with the latest Dropsa Ultrasensor spool sensor product: a revolutionary patented system that has no moving parts and made in AISI 316 Stainless Steel. The two **Ultrasensors** installed on the DLFP are typically wired to the host machine's PLC system. Each input received from the unit represent 2cm<sup>3</sup> / xxx cu.inch of flow injection for the respective line.



## TECHNICAL INFORMATION

TECHNICAL CHARACTERISTICS	
Flow per cycle:	2 cm <sup>3</sup> /cycle
Min Pressure:	20 Bar, 30psi
Max Pressure:	300 Bar, 4400 psi
Max Cycles per min:	625 cycles
Operating Temperature: -	10 a 70°C, 14 a 158°F
Lubricant viscosity:	Max: grease NLGI2
Material:	Zinc Plated Steel

## ORDERING INFORMATION

STANDARD EQUIPMENT	
DESCRIPTION	CODE
Dual line flow monitor panel	1525369
SPARE PARTS	
DESCRIPTION	CODE
Manometer, AC 0-250 bar	20607
Ultrasensor for SMP	1655306
Connector for ultrasensor M12	38999
Divider SMP 10	644605

Distributor Info: