GREEN SILENCE™

Green Silence Group

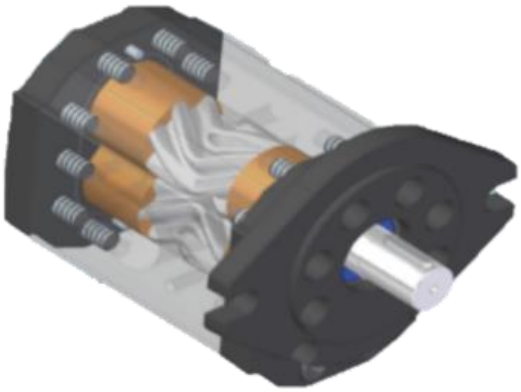
Leading the Energy Transition, Together

SETTIMA® research & innovation, always

Spin

motive

4Q® Continuum® Series
Ultra-Silent 4 Quadrants, Bi-Helical pumps/motors



4Q® Continuum®

4Q® Continuum® is the new, revolutionary invention of Settima Meccanica in the field of ultra-silent hydraulic machines.

4Q® Continuum® is the evolution of the successful Settima Continuum® technology.

It is internationally patented and based on BI-HELICAL rotors.

The main purpose of a four-quadrants functioning is to recover energy and it's typical of closed loop circuits. Continuum® 4Q® concept is based on energy regeneration, and it can be implemented when it's necessary to hoist and lower positive and negative loads in a controlled way.

Additionally, the Continuum® 4Q® concept allows to significantly simplify the hydraulic circuit. For example, both pump deliveries could be connected directly to the cylinder. In this way it's possible to control the actuator in both directions. The speed of the motor determines the flow rate and, consequently, the speed of the actuator. The direction of rotation determines the direction of movement of the actuator and the motor torque control allows to regulate the pressure available in the system. Almost no further components are required for the operation (directional valves and flow control valves can be eliminated).

MAIN BENEFITS

- Pump and motor
- Bi-directional
- Energy saving
- Energy recovery
- Silent like Continuum®
- Ultra compact

Product Range

GR28	DISPLACEMENTS
CC	8.3
	10.2

GR33	DISPLACEMENTS
CC	11.8
	13.9
	15.9

GR38	DISPLACEMENTS
CC	17.8
	19.9
	22

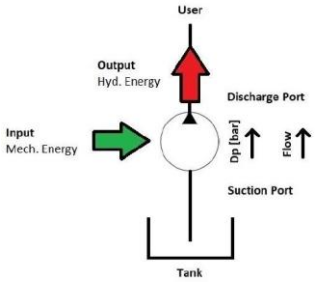
GR42	DISPLACEMENTS
CC	29,9
	28.3
	31.6

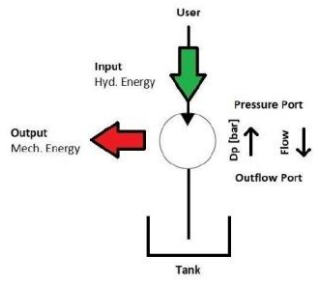
GR47	DISPLACEMENTS
CC	36,1
	40.3
	44.9
	50.1

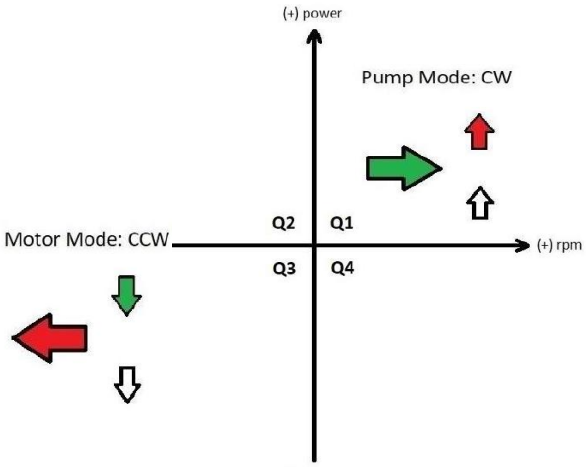
GR55	DISPLACEMENTS
CC	63.2
	74,7
	79,7

From Continuum® to 4Q Continuum®

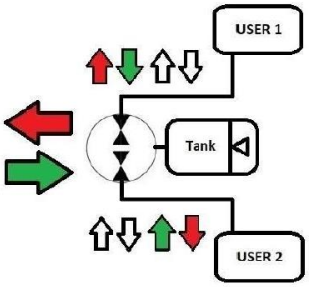
continuum®



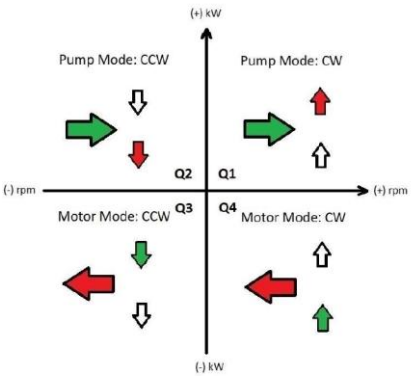




4Q Continuum®



Pump & Motor Bi-Rotational Hydraulic Device



Application Examples

Electric Skid Steers

Electric Mini-Excavators

Electric Forklifts

PIMM'S and Presses

For your projects please send your requests to: electrification@settima.it

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