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Tell: 021-55882749

Tell: 021-33488178

Fax: 021-33488105



GO SILENTLY SAVING ENERGY



ENERGY



WIND



INDUSTRIAL

2VHL Continuum[®] Pump

Silent transfer pump for lubrication,
filtration & cooling

Ideal for extreme environments



2VHL Continuum® Pumps are transfer pumps designed to handle a wide variety of fluids, with no operating noise. In few words transport and silence.

The rotors of **2VHL Continuum® pump** have been designed using the well known Continuum helical rotors, which are a byword for silence, energy consumption reduction and high performance.

The Continuum® concept, heart of **2VHL Continuum® pump**, is based on three patented technological innovations:

- The rotors profile
- The screw step
- The inner force balancing

Three innovations that applied to the most advanced design and manufacturing capability of Settima, drive to a final results of a sustainable fluid power:

- Smooth changes in pressure growth
- High efficiency
- No noise
- Energy consumption reduction

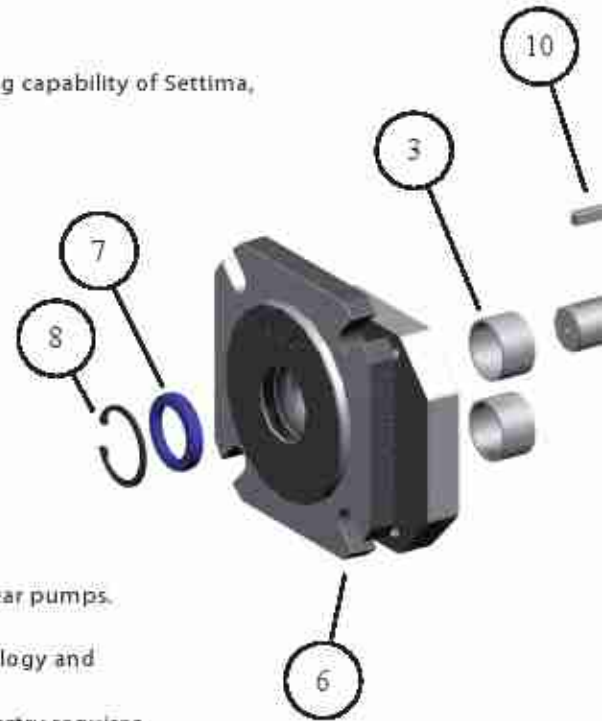
The standard housing sections of **2VHL Continuum® pump** are made of grey cast iron, the helical rotors are manufactured with high strength hardened steel, located in a multi compound plain bearing bushes.

Drive shaft is sealed by rotary shaft lip-type sealing.

2VHL Continuum® pumps are suitable for fluids with medium to high viscosity.

2VHL Continuum® Pump dimensions and flanges are similar to the standard gear pumps.

The specific configuration of **2VHL Continuum® pump**, the high level of technology and the material used are the perfect combination for the last generation wind mills industry. **2VHL Continuum® pump** means a long life as the wind mills industry requires.



Applications

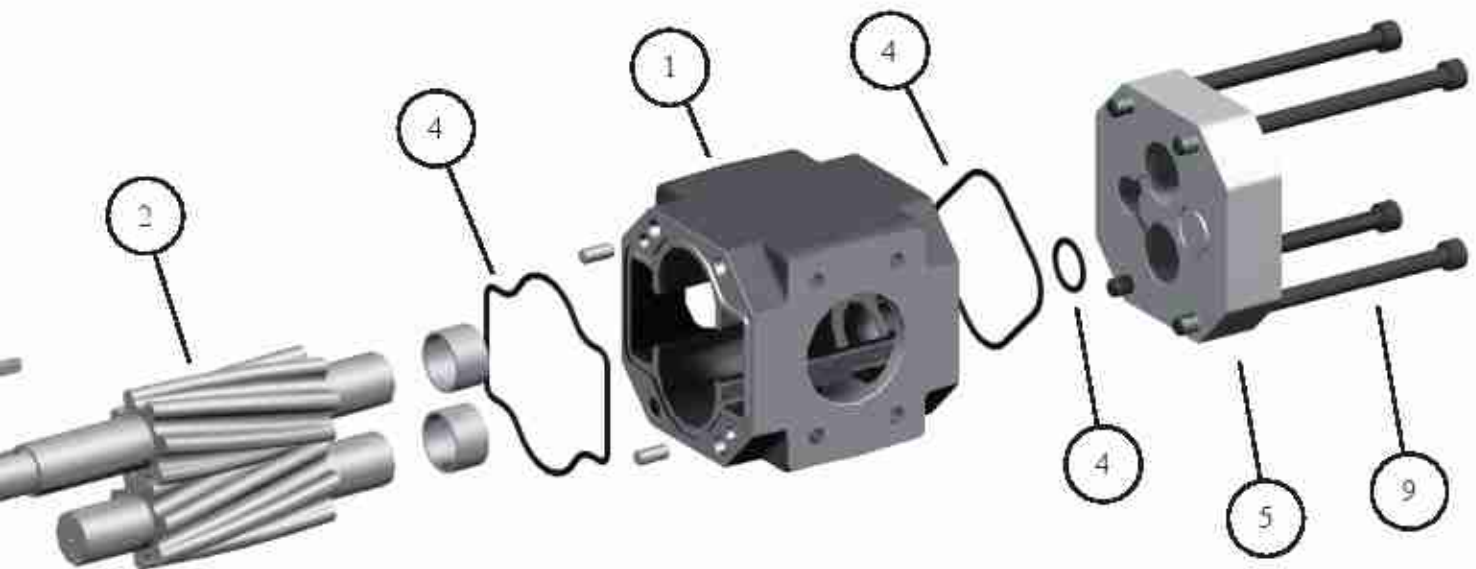


APPLICATIONS

- Lubrication
- Turbine and compressors
(gear boxes, transmissions,
bearings, shafts)
- Filtration
- Cooling
- Recycle

FLOW MEDIA

- Hydraulic fluids (mineral
and synthetic)
- Thermal oils
- Emulsions
- Polyglycol oil
- Heavy oil
- Other fluids upon req



Index

| N° | Description | Material |
|----|-------------|---------------------|
| 1 | Body | GJL 250* |
| 2 | Gears | Steel |
| 3 | Bushing DU | Steel |
| 4 | O Ring | NBR/FKM (FPM/EPDM)* |
| 5 | End cover | GJL 250* |
| 6 | Front cover | GJL 250* |
| 7 | Lip seal | NBR/FKM (FPM/EPDM)* |
| 8 | Circlip | Steel |
| 9 | Screws | Steel |
| 10 | Shaft key | Steel |

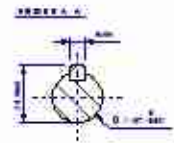
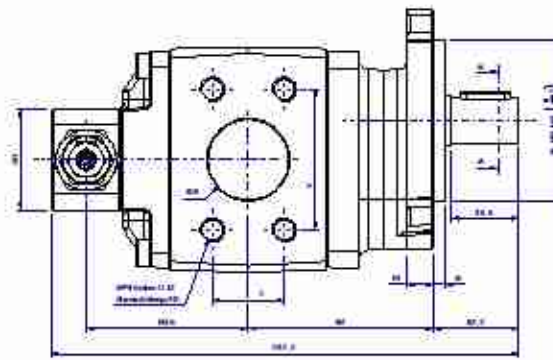
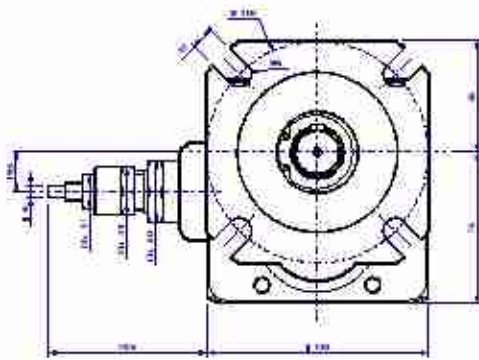
* others available upon request

Standard performances

| Characteristics | Unit | Minimum | Maximum |
|---------------------------|--------------------|---------------|---------------|
| Gas content (undissolved) | Vol. % | - | 10 |
| Level of contamination | ISO4406 | - | 21/19/17 |
| Kinematic viscosity | mm ² /s | 7 | 100.000* |
| Temperature (NBR seals) | °C | -25 | 80 |
| Temperature (FPM seals) | °C | -25 | 150 |
| Acoustic emissions | db(A) | 52 @ 1500 rpm | 63 @ 2950 rpm |
| Pressure | bar | - | 25 (peak: 40) |

Above are listed the standard performances, when ever it's necessary to overtake those standards please contact **Settima**

* For viscosity level over 15.000 mm²/s please contact **Settima**

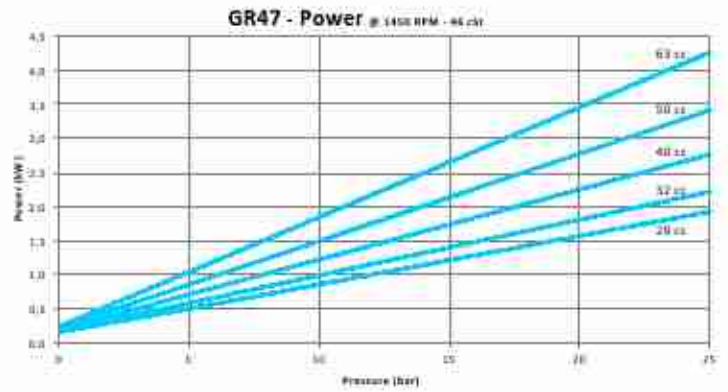
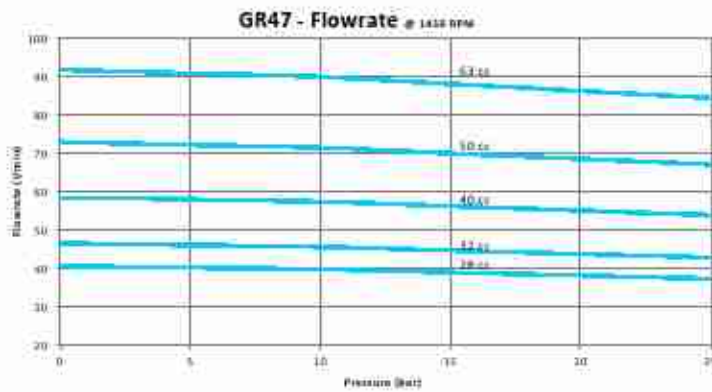


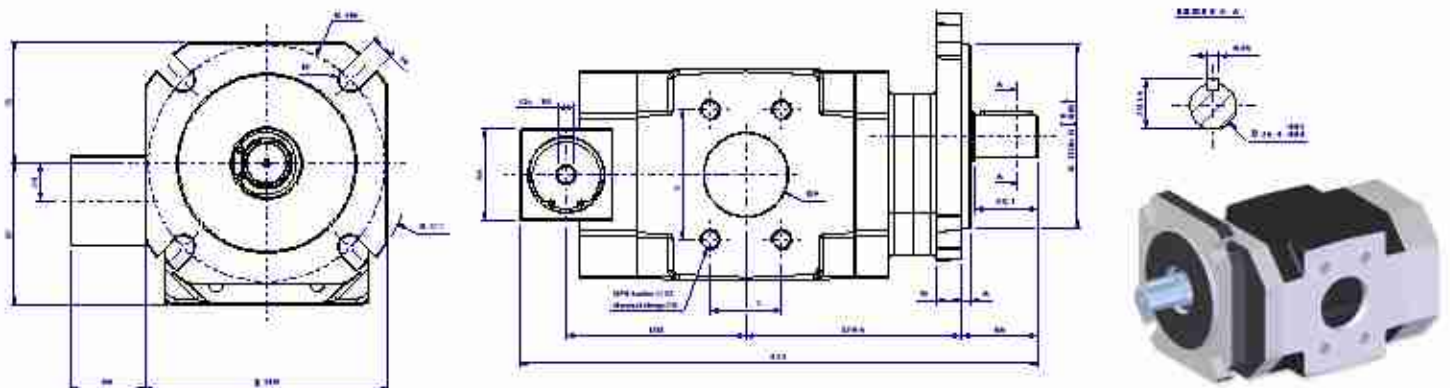
Details

| Nominal displacement [cm ³] | Description | ØF [mm] | X [mm] | Y [mm] | Weight [kg] |
|---|-------------|---------|--------|--------|-------------|
| 28 | SAE 1 1/2" | 40 | 35,70 | 69,85 | 9,5 |
| 32 | SAE 1 1/2" | 40 | 35,70 | 69,85 | |
| 40 | SAE 1 1/2" | 40 | 35,70 | 69,85 | |
| 50 | SAE 2" | 50 | 42,90 | 77,80 | |
| 63 | SAE 2" | 50 | 42,90 | 77,80 | |

Performance

In case of deviation of the fluid kinematic viscosity from the value reported in the below graphic (46 mm²/s), the flow rate can also deviate but with minimum values.



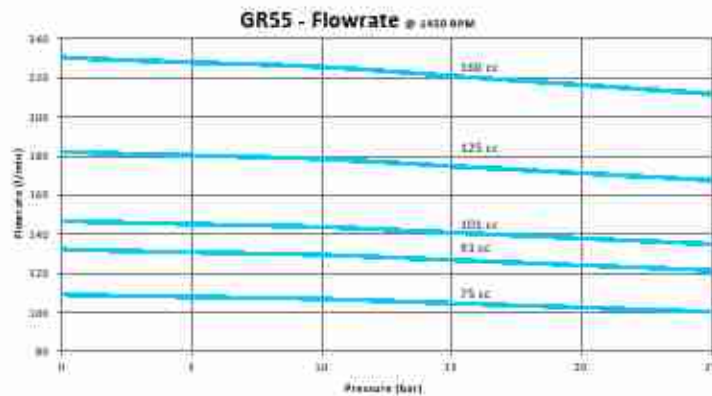


Details

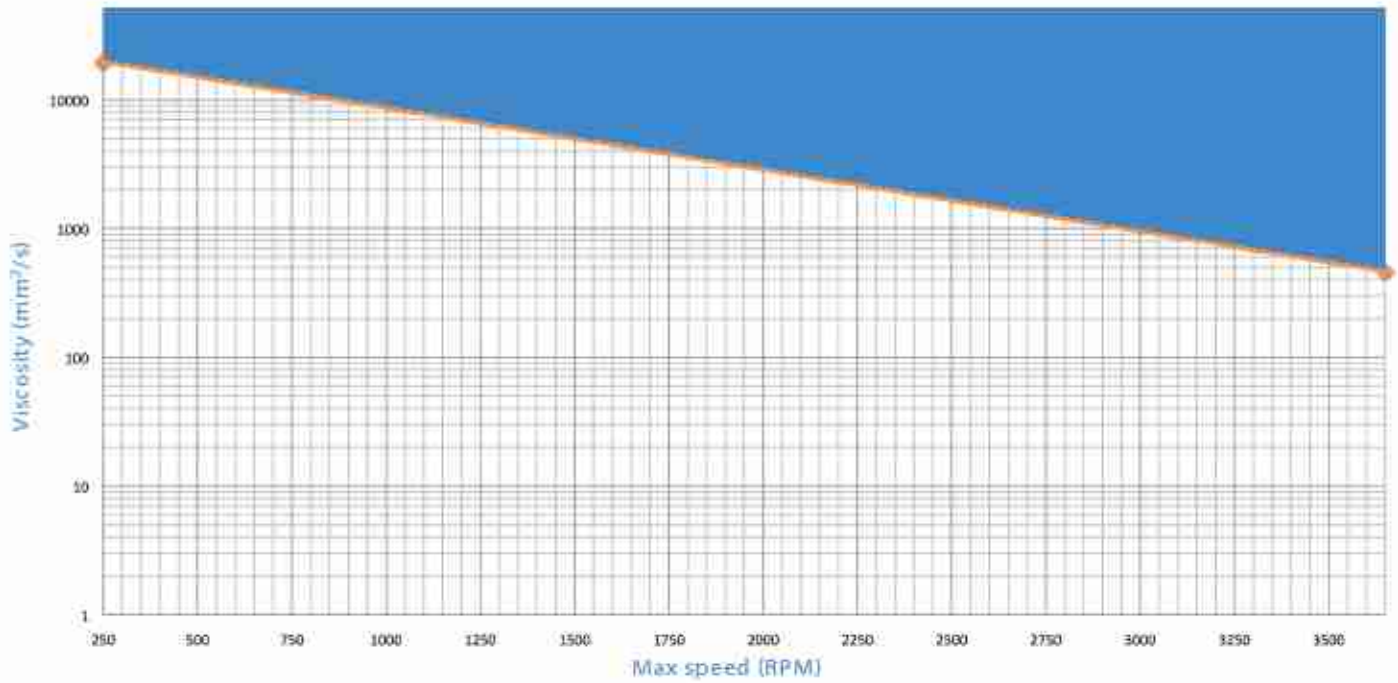
| Nominal displacement [cm ³] | Description | ØF [mm] | X [mm] | Y [mm] | Weight [kg] |
|---|-------------|---------|--------|--------|-------------|
| 75 | SAE 2" | 50 | 42,90 | 77,80 | 19 |
| 91 | SAE 2" | 50 | 42,90 | 77,80 | |
| 101 | SAE 2" | 50 | 42,90 | 77,80 | |
| 125 | SAE 2 1/2" | 63 | 50,80 | 88,90 | |
| 160 | SAE 2 1/2" | 63 | 50,80 | 88,90 | |

Performance

In case of deviation of the fluid kinematic viscosity from the value reported in the below graphic (46 mm²/s), the flow rate can also deviate but with minimum values.

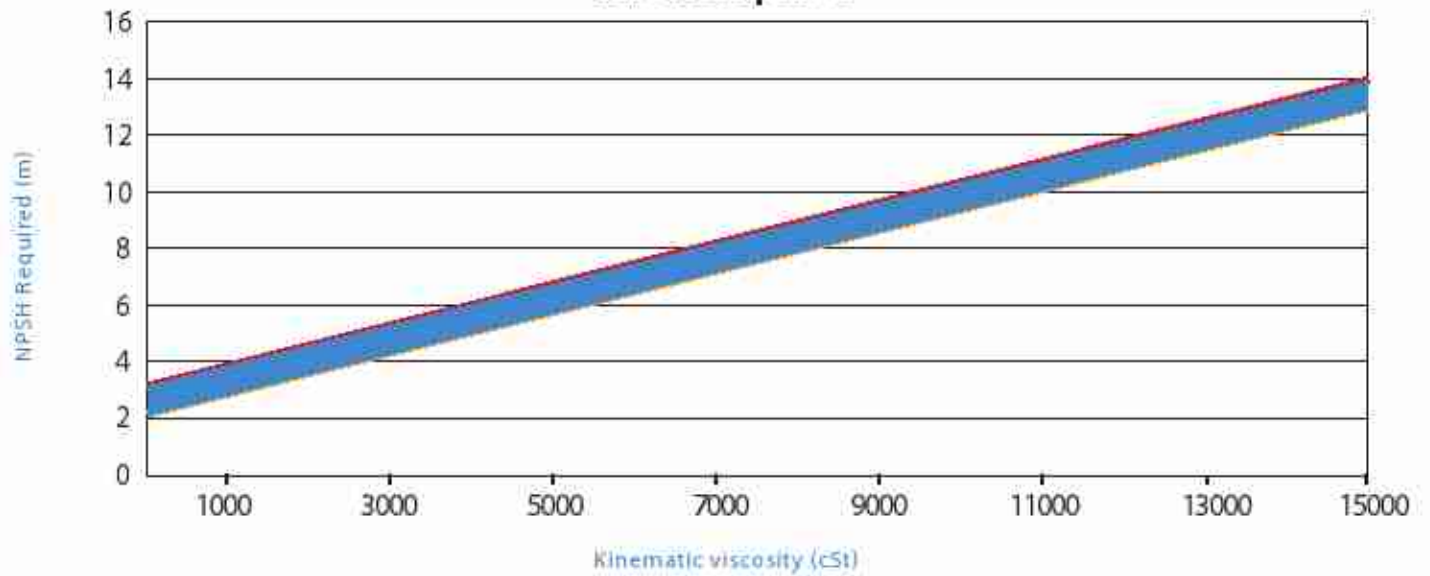


RPM limit



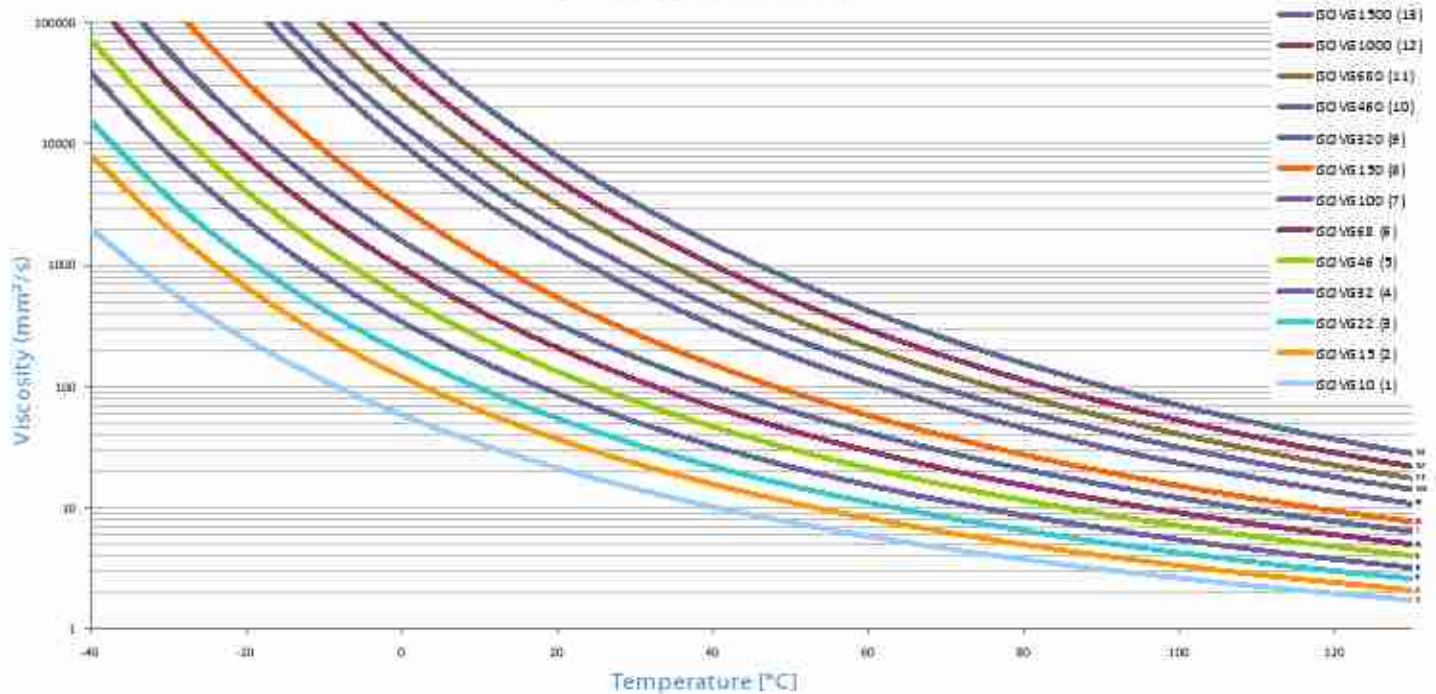
The graph is referred to the average performances of all 2VHL series. For more information please contact Settima.

NPSH Required



The graph is referred to the average performances of all 2VHL series. For more information please contact Settima.

Lubricants (DIN51519)



Product range - Ordering code of GR47 - GR55

To order Settima 2VHL Continuum® Pump, follow the below tables

| Type | Class | Nominal CC | Flange & shaft | Ports | Seals | Rotation | Ext. adjustable safety valve | Corrosion & preservation |
|------|-------|------------|----------------|-------|------------------------|--------------------------|------------------------------|-----------------------------------|
| GR47 | 2VHL | 28 | F80IAC | M | STANDARD NBR → none | STANDARD DX clockwise | STANDARD none | STANDARD Phosphating → none |
| | | 32 | | | | | | |
| | | 40 | | | | | | |
| | | 50 | | | | | | |
| | | 63 | | | | | | |

| Type | Class | Nominal CC | Flange & shaft | Ports | Seals | Rotation | Ext. adjustable safety valve | Corrosion & preservation |
|------|-------|------------|----------------|-------|------------------------|--------------------------|------------------------------|-----------------------------------|
| GR55 | 2VHL | 75 | F110EAC | M | STANDARD NBR → none | STANDARD DX clockwise | STANDARD none | STANDARD Phosphating → none |
| | | 91 | | | | | | |
| | | 101 | | | | | | |
| | | 125 | | | | | | |
| | | 160 | | | | | | |

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SETTIMA

Settima, Italy

Headquarter, r&d and production

SETTIMA

USA
Warehouse

SETTIMA

Shanghai, China
Warehouse

Settima Meccanica Srl

Settima - 29020 Piacenza (Italia)

tel. +39 0523.557623

fax +39 0523.557256

www.settima.it

info@settima.it

Settima Flow Mechanisms

Settima - 29020 Piacenza (Italia)

tel. +39 0523.557623

fax +39 0523.557256

www.settima.it

info@settimafm.com

 **SETTIMA MECCANICA**

Area Agency/Reseller

SETTIMA
flow mechanisms