



## ELECTROPUMP GROUP

### SERIES 1056



Silea self priming volumetric rotative vane pump has mechanical seals and over pressure by-pass valve, with regulation, included. The 1052 Pump represents the optimal solution for gas oils, fuels oils, gasoline, jet fuels, service water and many thinners and solvents such as esters, naphtha, ketones, alcohols, aromatics...and many others liquids. A special Silea table will provide compatibilities and type of pump your liquid will require.

#### ELECTROPUMP DESCRIPTION

The unit is complete of:

- **Self priming volumetric rotative vane pump**, supplied with mechanical seals and over pressure by-pass valve with regulation.
- **Electric motor** explosion-proof (Exd Certificate), designed for the customer specific pumping needs.
- **Base**, made of stainless steel.
- **Mechanical drive** by means of:
  - **Trapezoidal belt drive** with pulleys
  - or
  - **Reduction gear drive.**



**TYPE OF PUMP:**

Silea S.p.A. pumps are classified for the type of liquid they can work and for dimensions:

2 ½ “	FUELS
3”	FUELS
2 ½ “	SOLVENTS
3”	SOLVENTS

- **FUELS PUMP (MOD. C)**

Fuels pumps are for fuels and have cast iron body and rotor and carbon steel shaft. Mechanical seals are in Viton™ (Standard).

- **SOLVENTS PUMP (MOD. S)**

Solvents Pumps have cast iron body and rotor and stainless steel shaft. Mechanical seals are in Teflon™ (PTFE).

- **2.5” PUMP**

This model has an inlet and outlet diameter of 2.5”.

- **3” PUMP**

This model has an inlet and outlet diameter of 3”.

**CONNECTION WITH ELECTRIC MOTORS**

All pump made in Silea can feature electric motors (from 1.5 kW to 11 kW), with explosion-proof Eexd Certificate, supplied on request and designed for the customer specific pumping needs. Mechanical drives can be supplied with belts and pulleys or with reductions gears. In this case an elastic joint connects the motor and the pump to the gear.

**Mechanical Drive**

- **Trapezoidal Belt Drive** (antistatic) with cast iron pulleys in different diameters to satisfy all the flow rates. Please find on the picture below an electro pump series 1056, with belt drive, with “T” filter, series 0531.
- **Parallel axis reduction gear drive.** The reduction gear is connected to the pump and to the electric motor by mean of two elastic joints, designed in relation to the torque moment and the power of the motor. Please find on the picture below one 1056 pump, with reduction gear drive, with “T” filter, series 0531.



## ELETTROPUMP UNIT FOR FUELS

### PUMP 2.5"

CODE	FLOW RATE (l/min)	MOTOR POWER (kW) (Hp)		HEAD (m)	PUMP ROTATION VELOCITY (giri/min)	DRIVE
10560122	<b>300</b>	2.2	3	30	400	BELT
10560322	<b>300</b>	2.2	3	30	400	REDUCTION GEAR
10560134	<b>500</b>	4	5.5	35	650	BELT
10560334	<b>500</b>	4	5.5	35	650	REDUCTION GEAR

### PUMP 3"

CODE	FLOW RATE (l/min)	MOTOR POWER (kW) (Hp)		HEAD (m)	PUMP ROTATION VELOCITY (giri/min)	DRIVE
10560246	<b>750</b>	5.5	7.5	30	500	BELT
10560446	<b>750</b>	5.5	7.5	30	500	REDUCTION GEAR
10560248	<b>1000</b>	5.5	7.5	25	650	BELT
10560258	<b>1000</b>	5.5	7.5	35	650	BELT
10560448	<b>1000</b>	7.5	10	25	650	REDUCTION GEAR
10560458	<b>1000</b>	7.5	10	35	650	REDUCTION GEAR

## ELETTROPUMP UNIT FOR SOLVANTS

### PUMP 2.5"

CODE	FLOW RATE (l/min)	MOTOR POWER (kW) (Hp)		HEAD (m)	PUMP ROTATION VELOCITY (giri/min)	DRIVE
10560522	<b>300</b>	2.2	3	30	400	BELT
10560722	<b>300</b>	2.2	3	30	400	REDUCTION GEAR
10560534	<b>500</b>	4	5.5	35	650	BELT
10560734	<b>500</b>	4	5.5	35	650	REDUCTION GEAR

### PUMP 3"

CODE	FLOW RATE (l/min)	MOTOR POWER (kW) (Hp)		HEAD (m)	PUMP ROTATION VELOCITY (giri/min)	DRIVE
10560646	<b>750</b>	5.5	7.5	30	500	BELT
10560846	<b>750</b>	5.5	7.5	30	500	REDUCTION GEAR
10560648	<b>1000</b>	5.5	7.5	25	650	BELT
10560658	<b>1000</b>	5.5	7.5	35	650	BELT
10560848	<b>1000</b>	7.5	10	25	650	REDUCTION GEAR
10560858	<b>1000</b>	7.5	10	35	650	REDUCTION GEAR



**PUMP TECHNICAL FEATURES**

- **Mechanical Seals** are very reliable and don't need any maintenance.
- **Ball bearings** are isolated from the pumping liquid, by the mechanical seals. The shaft is symmetrically supported by the ball bearings, balancing forces and reducing wear, providing an optimal operating life.
- **“By-pass” valve** series 1052, keep the inlet pressure constant. This valve doesn't allow over pressure in the piping system and overloading on electric motor.
- **Vanes** are designed to adhere, even when worn, to the pump body. After long usage, vanes come out and keep their adherence to the pumping cavity. This simple action keeps efficiency, flow rate and suction capacity constant all life long.
- 2.5” or 3” flange to be welded.

**PUMP TECHNICAL DATA**

TYPE OF FLUID	<ul style="list-style-type: none"> <li>• FUELS</li> <li>• SOLVENTS</li> </ul>
MAXIMUM FLOW RATE	<ul style="list-style-type: none"> <li>• 150 ÷ 500 l/min (2.5")</li> <li>• 500 ÷ 1000 l/min (3")</li> </ul>
MAXIMUM VISCOSITY(dynamic)	2000 centiStokes 10000 SSU 290° Engler
MAXIMUM HEAD (Please refer to following pumps diagrams)	55 m c.l.
MAXIMUM PRESSURE (static)	10 bar
MAXIMUM OPERATING TEMPERATURE	<ul style="list-style-type: none"> <li>• 150°C (1052 C)</li> <li>• 250°C (1052 S)</li> </ul>
WEIGHT	<ul style="list-style-type: none"> <li>• 115 ÷ 270 kg</li> </ul>



### **SPARE PARTS (KINDLY SUGGESTED)**

Silea S.p.A. suggests these items for 3–4 years of better performances of 2.5” or 3” pumps:

- **N.1 Seals kit** , series 2300-PVS
- **N.3 Pin for vanes**, series 1052 6x70
- **N.1 Woodruff key**, series 0100-2000032
- **N.6 Vanes**, series 1052
- **N.2 Mechanical Sealing**, series 1052
- **N.2 Ball bearings**, series 1052

### **ACCESSORIES**

For more safety and better usage, Silea S.p.A. suggests that on our 1056 series electropump would be fixed following accessories:

- **Aspiration “T” Filter**, series 1052, to keep optimal performances (Recommended).
- **Foot Valve**, series 0531 (Check valve), to avoid cavitations and to filter the liquid at the bottom of the tank.

### **LAW AND REGULATION REQUIREMENTS**

All goods included in the delivery will satisfy all the related law requirements:  
All this Directives will be satisfied:

- 94/9/CE Directive, named ATEX.
- Machine Directive 98/37/CE
- Directive 89/336/CEE, concerning Electromagnetic Compatibility.

### **STANDARD DOCUMENTATION**

Each 1056 electropump is identified by complete series number and it is provided with:

- Pump drawing
- Declaration ATEX 94/9/CE
- Declaration of conformities: Machine Directive 98/37/CE, Electromagnetic Compatibility
- Usage and maintenance manual
- Complete Pump maintenance kits drawings



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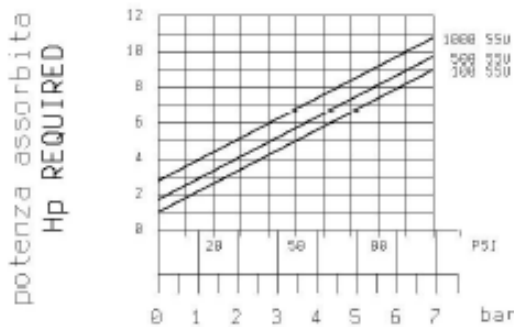
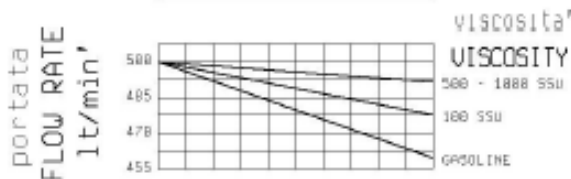


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 PERFORMANCE CURVES  
 pompe serie  
 PUMP SERIES 1052

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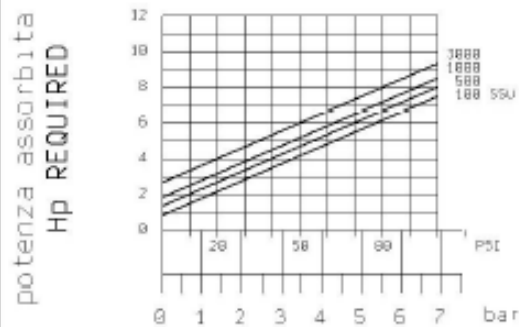
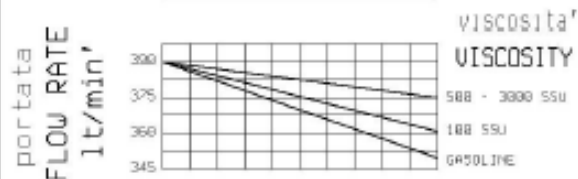
modello  
 MODELS: S-2 1/2"-C S-2 1/2"-S

650 giri/min'  
 RPM



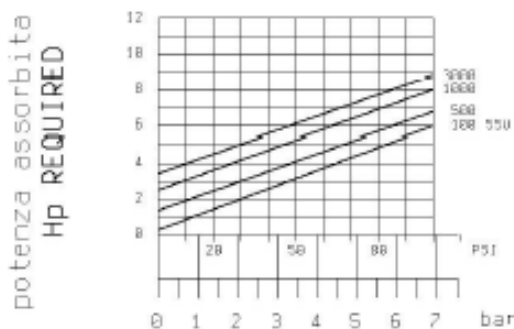
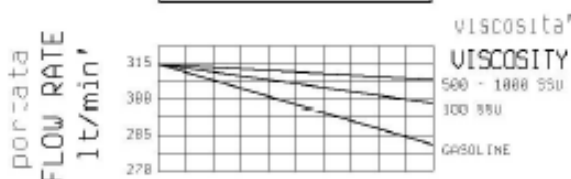
DIFFERENTIAL PRESSURE  
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520 giri/min'  
 RPM



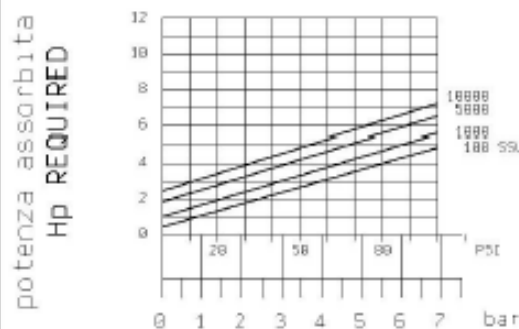
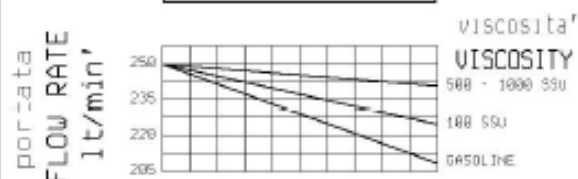
DIFFERENTIAL PRESSURE  
 pressione differenziale

420 giri/min'  
 RPM



DIFFERENTIAL PRESSURE  
 pressione differenziale

330 giri/min'  
 RPM



DIFFERENTIAL PRESSURE  
 pressione differenziale



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 PERFORMANCE CURVES  
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 PUMP SERIES 1052

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modello  
 MODELS: S-3"-C S-3"-S

