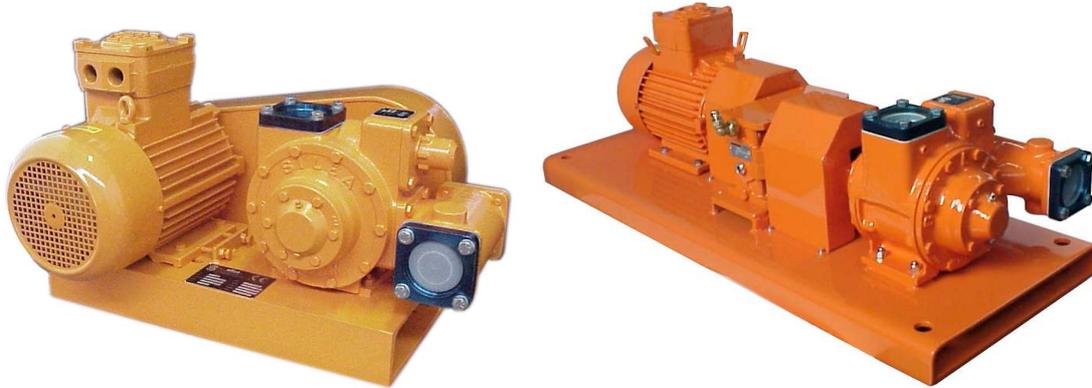
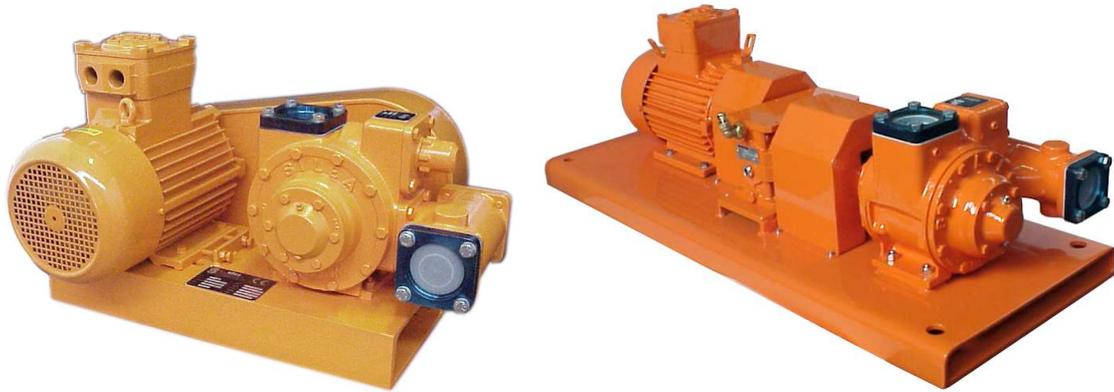


# SILEA'S PUMP GROUPS FOR FUELS



<b>CODE</b>	<b>MODELS</b>	<b>LT / Min</b>	<b>HP-EEX-d</b>	<b>HEAD:mt</b>	<b>RPM</b>	<b>TRANSMISSION</b>
<b>10560122</b>	<b>G.E.2,5C.C-3</b>	<b>300</b>	<b>3 (2,2kw)</b>	<b>30</b>	<b>400</b>	<b>Belting &amp; Pulley</b>
<b>10560134</b>	<b>G.E.2,5C.C-5,5</b>	<b>500</b>	<b>5,5 (4kw)</b>	<b>35</b>	<b>650</b>	<b>Belting &amp; Pulley</b>
<b>10560322</b>	<b>G.E.2,5C.R-3</b>	<b>300</b>	<b>3 (2,2kw)</b>	<b>30</b>	<b>400</b>	<b>Reduction gear</b>
<b>10560334</b>	<b>G.E.2,5C.R-5,5</b>	<b>500</b>	<b>5,5 (4kw)</b>	<b>35</b>	<b>650</b>	<b>Reduction gear</b>
<b>10560246</b>	<b>G.E.3C.C-7,5</b>	<b>750</b>	<b>7,5 (5,5 kw)</b>	<b>30</b>	<b>500</b>	<b>Belting &amp; Pulley</b>
<b>10560248</b>	<b>G.E.3C.C-7,5</b>	<b>1.000</b>	<b>7,5 (5,5 kw)</b>	<b>25</b>	<b>650</b>	<b>Belting &amp; Pulley</b>
<b>10560258</b>	<b>G.E.3C.C-10</b>	<b>1.000</b>	<b>10 (7,5 kw)</b>	<b>35</b>	<b>650</b>	<b>Belting &amp; Pulley</b>
<b>10560446</b>	<b>G.E.3C.R -7,5</b>	<b>750</b>	<b>7,5 (5,5 kw)</b>	<b>30</b>	<b>500</b>	<b>Reduction gear</b>
<b>10560448</b>	<b>G.E.3C.R -7,5</b>	<b>1.000</b>	<b>7,5 (5,5 kw)</b>	<b>25</b>	<b>650</b>	<b>Reduction gear</b>
<b>10560458</b>	<b>G.E.3C.R -10</b>	<b>1.000</b>	<b>10 (7,5 kw)</b>	<b>35</b>	<b>650</b>	<b>Reduction gear</b>

# SILEA'S PUMP GROUPS FOR ADDITIVES



CODE	MODELS	LT / Min	HP-EEX-d	HEAD:mt	RPM	TRANSMISSION
10560522	G.E.2,5S.C-3	300	3 (2,2kw)	30	400	Belting & Pulley
10560534	G.E.2,5S.C-5,5	500	5,5 (4kw)	35	650	Belting & Pulley
10560722	G.E.2,5S.R-3	300	3 (2,2kw)	30	400	Reduction gear
10560734	G.E.2,5S.R-5,5	500	5,5 (4kw)	35	650	Reduction gear
10560646	G.E.3S.C-7,5	750	7,5 (5,5 kw)	30	500	Belting & Pulley
10560648	G.E.3S.C-7,5	1.000	7,5 (5,5 kw)	25	650	Belting & Pulley
10560658	G.E.3S.C-10	1.000	10 (7,5 kw)	35	650	Belting & Pulley
10560846	G.E.3S.R -7,5	750	7,5 (5,5 kw)	30	500	Reduction gear
10560848	G.E.3S.R -7,5	1.000	7,5 (5,5 kw)	25	650	Reduction gear
10560858	G.E.3S.R -10	1.000	10 (7,5 kw)	35	650	Reduction gear

## A BETTER PERFORMANCE IMPLIES LOWER OPERATIONAL COSTS

- **How do rotary vane pumps work?**

Silea S.r.l. self-priming volumetric rotary vane pumps move an equal amount of liquid with every turn of the rotor.

As the rotor turns, the vanes slides out their slots, thereby increasing the volume inspiration chamber and creating a vacuum.

The liquid enters the pumping chamber and is then pushed by the vanes to the discharge port . From there is expelled as the volume inside the pumping chamber decreases and the vanes return into their slots.

Three forces act on the vanes to keep them tightly against the walls of the pumping chamber: the centrifugal force created by the turning of the rotor, the rods acting between opposite pairs of vanes, and the pressure exercised by the liquid on the back of the vanes. The grooves on the vanes make it possible for the liquid to exercise pressure on their posterior parts.

- **Sliding vanes maintain high level efficiency for a longer time**

While with gear pumps efficiency decreases as wear on the gears increase, with Silea's pumps the sliding vanes automatically compensate for wear. As wear increases, the vanes slide out of their slots and adhere to the walls of the pumping chamber. This simple actions keeps the original flow rate and aspiration capacity of the pump at a steady level until wear on the vanes reaches a critical point.

- **A precise and quiet bypass valve**

The bypass valve of Silea's pumps maintains an almost unvaried pressure at the outlet point even when the pump's entire flow capacity is bypassed. With the competition bypass valves, pressure increases along with the quantity of liquid bypassed. The more precise control offered by Silea's bypass prevents overburdening of the motors and excessive pressure.

- **Easier maintenance at lower cost**

One of the most important features of Silea's pumps is their easy maintenance using ordinary tools. Most of maintenance work can even be carried without disconnecting the pump from the pipes.

For example, the vanes can be replaced within a few minutes by simply removing the pump's external head. This simple maintenance operation restores the device to its original efficiency while maintaining non-operational time and maintenance to a minimum.

### **Pump group description**

- The device is essentially formed by the following components:

- A vanes type volumetric pump equipped with a mechanical gasket and an adjustable built-in 'ByPass' valve (this valve's function is to unload the excess capacity generated by the pump)
- Explosion-proof electric motor (EExd), dimensioned in relation to the device required performance, of which, attached herewith, you can find the related certificate supplied by the certifying body.
- Supporting basement

Depending to the type of group supplied, the connection to the electric motor is available in the following two version:

- by using antistatic trapezoidal beltings and cast-iron pulleys with variable diameters depending on the required capacity (The technical specification clearly shows the estimated diameters, the suitable belting and the related capacity);
- by using a parallel axis reduction gear that is connected to the motor and the pump through several elastic joints having characteristics suitable to the experienced torque moment and the power of the utilized motor.