PLASTIC FREEFLOW PUMPS
HV WITH MECHANICAL SEAL

Generalities
The horizontal freeflow pumps HV type complete the range of normalized NP pumps. They are designed to pump corrosive liquids charged with suspended matters, crystals or fibers.
HV pumps range offer flow rates up to 180 m³/h (792 US gpm) and a discharge head up to 40 m (131 m).
Cartridge mechanical seal
The shaft sealing is made by a cartridge mechanical seal designed by SOMEFLU. This mechanical seal is pre-adjusted in factory, and facilitate mounting and maintenance operation. Depending of fluid and the type of process, the mechanical seal can be built with the following alternatives:
- Standard mounting with the lubrication made by liquid pumped.
- Rinsing after standstill of the pump for crystallizing or charged liquids.
- Injection of clear liquid with a throttle bush in order to ensure the lubrication by a clear fluid if the process allows.
- Grease filling in the seal chamber to limit crystallization effects.
- Double mechanical seal with external lubrication for dangerous or charged liquids.

ATEX conformity
For the EC zone, all HV pumps are available certified as per ATEX 94/9/CEE.
- Groupe II Category 2 G
- Groupe II Category 1 G
Il 2/3 GcT4
Voluntary certification INERIS 04 ATEX 3008 X

Belt drive
For intermediate rotating speeds the pump can be driven by means of a compact belt drive device.

Connections
Suction and discharge flanges are in accordance with NFE 29-203, DIN 2533, ISO PN16. Other standards on demand.

Application fields
- Pumping of used industrials acid and basic liquids.
- Pumping of corrosive and abrasive sludges.
- Production units of sulphate and copper chloride.
- Organic waste valorization plants.
- Industrial waste treatment plants.