

NFE 44121 - DIN 24 256 - ISO 2858 - ISO 5199

Generalities

The horizontal, single stage centrifugal pumps of the NP range are intended for pumping of clear or lightly charged corrosive liquids in the most various fields of industry. The NP range offer flow rates up to 1000 m³/h (4400 US gpm) and a differential head up to 90 mcl (295 ft).

Normalized

The dimensions and characteristics of NP pumps correspond to standards NFE 44121- DIN 24256 - ISO 2858

Suction and discharge flanges correspond to standards NFE 29-203, DIN 2533, ISO PN16.

Others standards on demand.



ATEX conformity (Ex



For the EC zone all normalized pumps and their construction alternates are available certified as per ATEX 94/9/CE.

Group II Category 2G Group II Category 3G II 2/3 G c T4. (Others on demand) Voluntary certification INERIS 04 ATEX 3008X



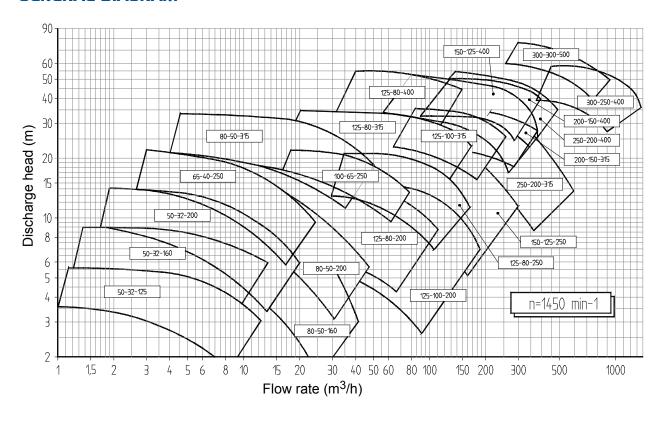
Main advantages

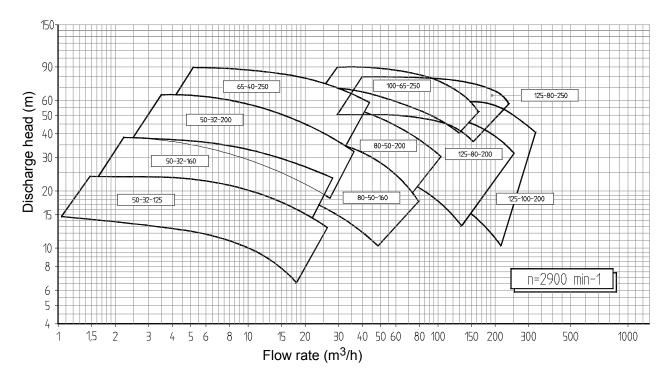
- External efforts absorbed by metal flanges.
- Use of polymer parts manufactured in block.
- Rotor torque transmission via a pressed-in metal hub and a key.
- Maintenance simplified by means of a quick change unit.
- Sealing realized by a cartridge mechanical seal.
- Axial clearance adjustment of the impeller without dismantling.





GENERAL DIAGRAM







PLASTIC NORMALIZED PUMPS NP WITH MECHANICAL SEAL



Construction

The hydraulic part is entirely realized of thick walled plastic materials.

There is no metallic component in contact with the pumped liquid.

- > Polypropylene PP or PP-EL
- > Polyethylene PE-HD or PE-EL
- > PVI
- > PVDF or PVDF-EL
- > PTFE
- > PFA
- > SOMEDUR for abrasive liquids

SOMEDUR is a new material developed by SOMEFLU especially for charged and abrasive liquids up to 90° C.



Manufacturing of SOMEDUR impeller

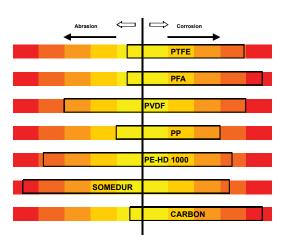
Cartridge mechanical seal

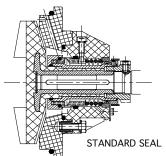
The shaft sealing is made by a cartridge mechanical seal designed by SOMEFLU.

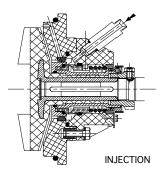
This mechanical seal is pre-adjusted in factory, and facilitate mounting and maintenance operations.

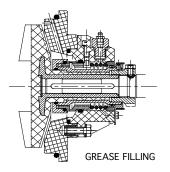
Depending of fluid and the type of process, the mechanical seal can be built with following alternatives:

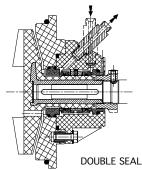
- Rinsing after standstill of the pump for crystallizing or charged liquids.
- Injection of clean liquid during running for liquids charged with abrasive matters. It is possible to use clear water if the process allows.
- Grease filling in the seal chamber to limit crystallization effects if process does not allow suply of water.
- Double mechanical seal with external lubrification for dangerous or charged liquids.







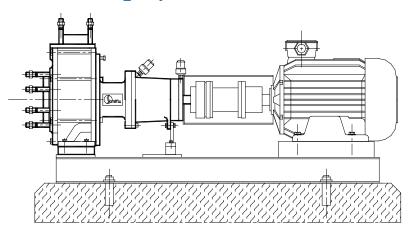


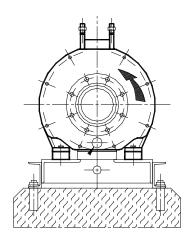






Overwiew of group





Some application examplesSOMEFLU plastic pumps have entered in the most advanced industrial fields: nuclear, chemical, petroleum, etc. SOMEFLU is also undeniable partner in Eco-industries.

- Surface treatment.
- Metallurgy (pickling Baths stocking , etc.).
- Deodorizing units for gas issued from purification process.
- Gas scrubber for waste incinerating plants.
- Sea water (aquariums thalassotherapies).
- Pumping of chemical liquids, effluents, etc.
- Petrochemical industry.
- Water treatment in nuclear power station.







