

Industrial Centrifugal Chemical Pump

Standardised Chemical Pump

The SFRP pump range end suction pumps are centrifugal type single stage and compliant to ANSI/ASME B73.1. Regulation. These pump are manufactured in FRP (fibre reinforced polyester) and do not need a protecting carcass or external frames to reinforce the structure.

The particular design and the intrinsic resistance of the material of construction confer to these pumps mechanical resistance comparable to that of the major metallic alloys. Use of different formulations of epoxy vinyl ester resins, extend the spectrum of chemical resistance of these pumps that are adequate and resistant to a large number of corrosive and moderately abrasive mediums.

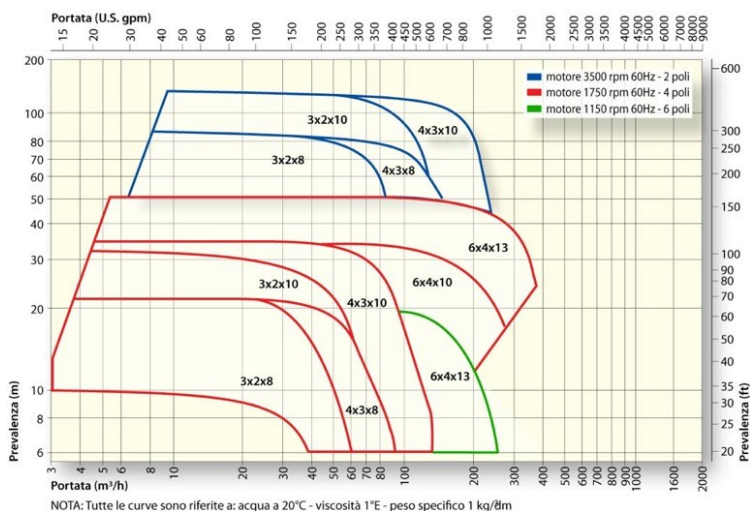
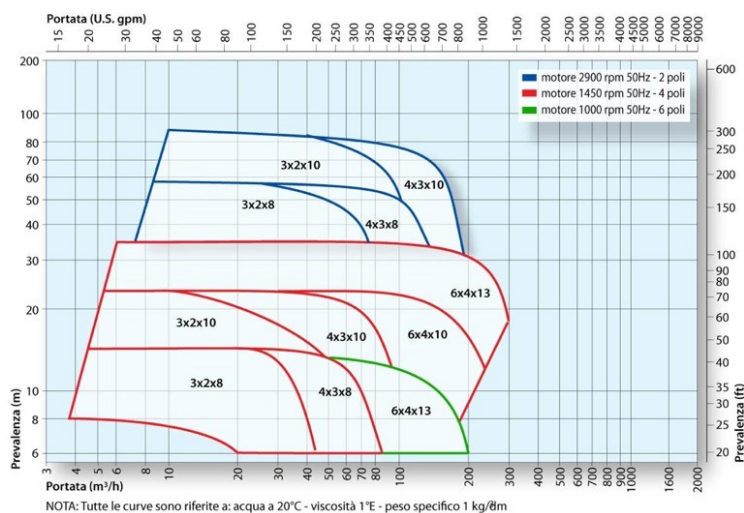
The SRFP pumps are a technical and economical alternative to metallic pumps made of special alloys and can be effectively applied in water treatment applications, aquatic centres, industrial waste waters and in general in productive processes deploying chemicals.



Pump with bearings housing and separate electric motor connected by means of a flexible coupling and bolted to a common base plate.



Bloc pump with pump assembly flange directly mated to the flange of the motor.



Fibreglass Reinforced Polyester Centrifugal Pump

MECHANICAL SEALS

SRFP ZMS can be fitted with various types of mechanical seals particular application. These seals are offered in various layouts and combination of materials to meet requested chemical resistance and are classified by type of installation:

- External - Lubricated by the liquid pumped.
- Internal to the casing – Lubricated by the liquid pumped or flushed with liquid from external supply.
- Double – Flushed with liquid from external supply External - lubricated by the liquid pumped.

SELF CENTERING DESIGN

- Shaft of pump coupled to electric motor shaft by mean of self centring self locking coupling unit.
- Taper roller bearing inserted in the intermediate support guides the shaft of the pump and bears its dynamic loads.
- Flange adaptor designed to host electric motor compliant to IEC standard (NEMA-JIS on request);
- Self centring design eases remote assembly of motor to pump.

CHEMICAL RESISTANCE

Construction available with different blends of epoxy vinyl ester makes these pumps resistant to a broad range of corrosive and/or moderately abrasive chemical liquid of common use and to sea water.

LIQUIDS LADEN WITH SOLIDS OR ABRASIVE

Different types and configuration of mechanical seals are available allow to pump liquids laden with solids in suspension or moderately abrasive.

LIQUIDS WITH HIGH SPECIFIC WEIGHT

Saturn pumps, either long coupled or close coupled, can be mated to motors of increasing power to pump fluids of increased specific gravity from 1,00 up to 2,00 kg/dm³ along all the performance curve of the pumps, without limitation of flow.

DESIGN AND MANUFACTURING DETAILS

- Monolithic volute casing and rear casing.
- Areas subjected to localised mechanical stress as flanges and feet manufactured with specific attentions and procedures.
- Fully balanced Impeller with metallic core.
- Internal hydrodynamic realized to favour the flushing of the mechanical seal and the migration of solids toward the peripheral of the rear casing
- Bolt and nuts made SUS.

FEATURES OF COUPLING DESIGN	LONG-COUPLED	CLOSED COUPLED
Pump Dimensions	According to ANSI B73.1	Wet End Only
Maintenance	Flexible Coupling	No Coupling
Working Conditions (recommended)	0-24 Hours per day	0-16 Hour per day
Life Cycle	Superior	Good

Available from: