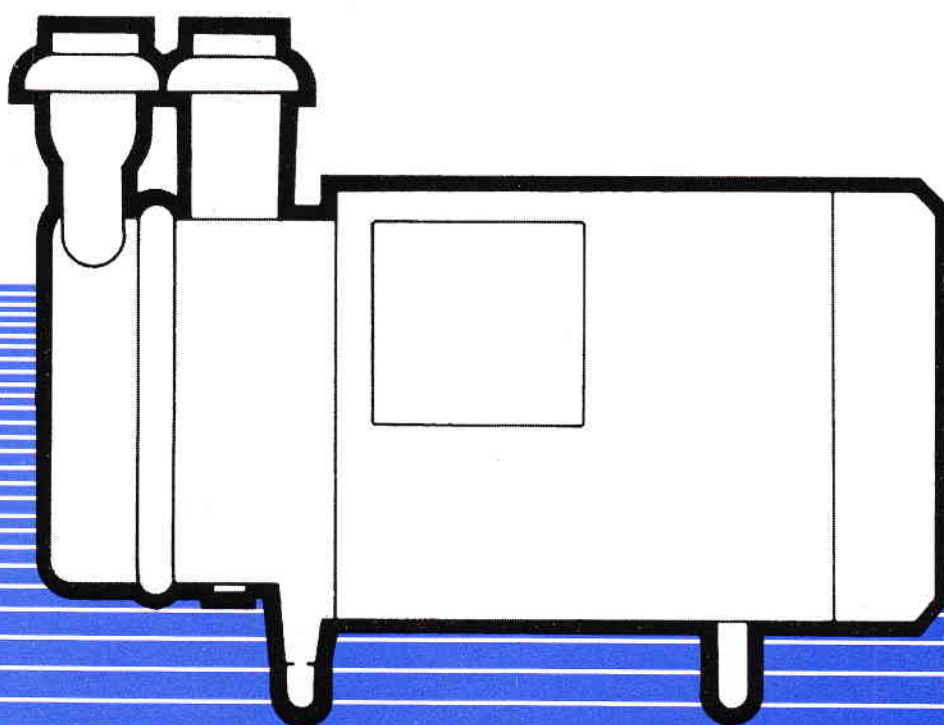




Centrifugal self-priming pump

SPB - SPA



Application

Pump is intended for pumping filtered products of good fluidity in food-stuff industry, e.g. milk, cream, fruit-juice, cider, young beer, wine, mineral water, water containing carbon dioxide, and so on.

It is advantageous to use that pump in chemical industry for pumping acid solutions, hydroxide, acid, alkaline and neutral solutions in water treatment plants, pharmaceutical industry, etc.

Max. temperature of a pumped liquid.....100 °C

Max. density of a pumped liquid1,050 kg.m³

Max. viscosity of a pumped liquid..... 37 mm².s⁻¹

Workmanship

Considering fields of application that pump is produced in two constructional versions.

„SPB“ Version - basic. Pump close-coupled with a flanged electric motor. The pump sits on three feet, two of which are adjustable vertically allowing removal of floor unevenness.

Pump-set does not require its own foundation, it may be placed right on the floor tile. Electric motor is protected with stainless protective enclosure.

„SPA“ Version. Pump close-coupled with a foot-flanged electric motor. That pump-set may be seated on a frame and/or a bracket having been adapted with the aid of the electric motor feet.

Construction

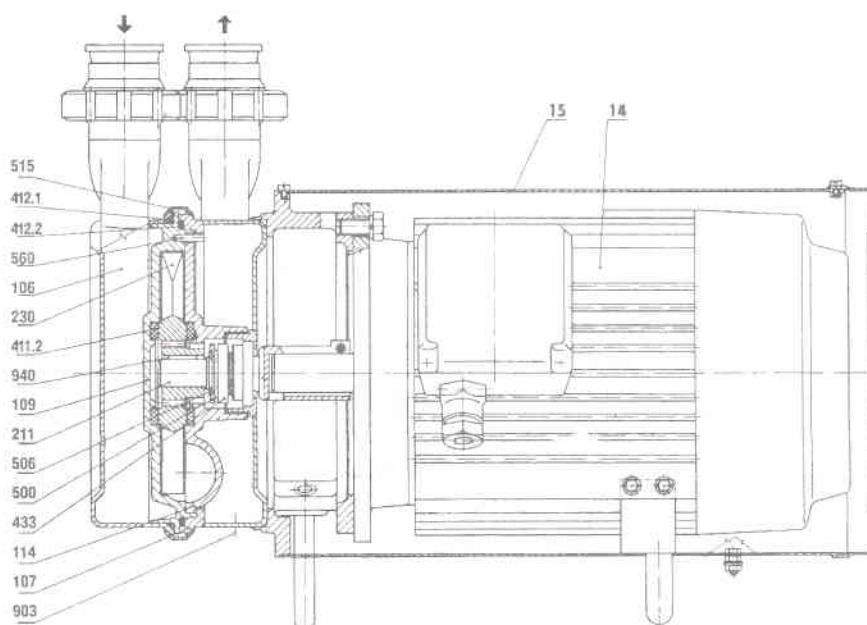
That pump is of rotary single-stage self-priming type. Simple workmanship allows its easy dismantling and even prompt access to its working parts.

Shaft is sealed with a mechanical seal.

Arrangement of the pump suction branch and discharge one is vertical upwards, so in the pump there water may be kept continuously, forming a liquid ring needful for air sucking out of suction piping with that pump design. There is no need to flood the pump before its single operation starting - with respecting the suction branch normal position upwards.

Material options

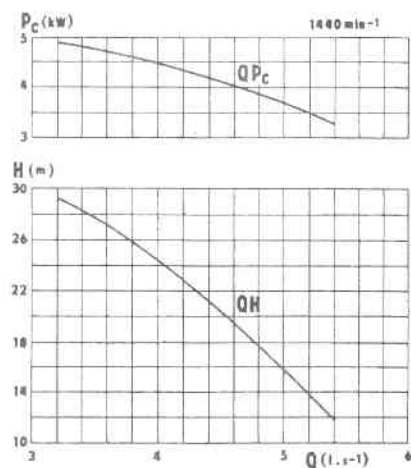
Pump-set hydraulic part being in contact with a pumped liquid is of **stainless corrosion-proof steel** on chrome-nickel base, while the impeller is of chrome-nickel-molybdenum stainless steel.



680.1	Electric motor enclosure
801	Electric motor
515	Sleeve
412.1	Wear ring
412.2	Wear ring
560	Pin
106	Pump cover
230	Impeller
411.2	Wear ring

940	Key
109	Suction intermediate diaphragm
211	Adapter
506	Circlip
500	Washer
433	Mechanical seal
114	Discharge intermediate diaphragm
107	Pump casing
903	Drain plug

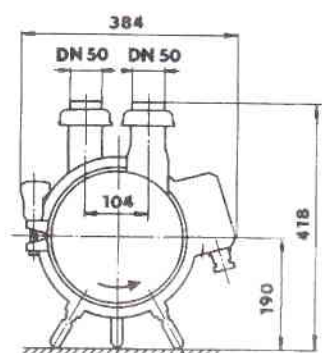
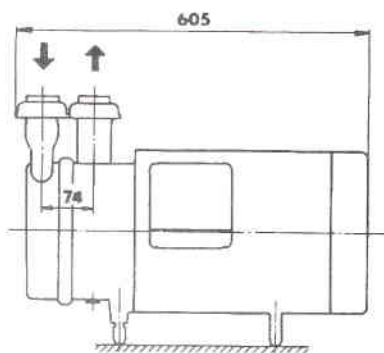
Pump performance chart and main technical data



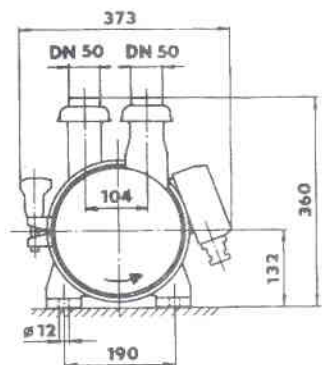
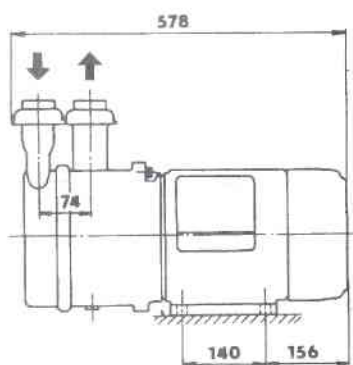
Electric motor - type			
Power output	P	(kW)	4
Voltage	U	(V)	400
Frequency	f	(Hz)	50
Speed	n	(min ⁻¹)	1440
Pump-set covering			IP 55
Pump-set weight	SPA	m (kg)	54
	SPB	m (kg)	57

Performance curves given in the chart have been specified for clean water with temperature of 20 °C and density 1,000 kg.m³

SPB



SPA



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