

I Applications

The Prolac S pump is a sanitary centrifugal pump that meets the highest sanitary requirements for use in the food-processing and pharmaceutical industries.

Some of its uses include processes in the brewing, dairies and beverage industries in general, and with the appropriate options it can also be used in complex applications such as evaporators, concentrators, distillation towers, decanting of syrups, and purified-water loops in the pharmaceutical industry.

I Operating principles

Housed inside the casing, the impeller rotates in conjunction with the pump shaft. With this arrangement, the impeller blades convey energy to the fluid in the form of kinetic energy and pressure energy.

This pump is not reversible by simple reversal of the direction of rotation. The direction of rotation is clockwise when the pump is viewed from the rear side of the motor.

I Design and features

Casing manufactured with cold-formed plate.

DIN connections (standard)

Open impeller manufactured with stainless steel investment casting technology

Sanitary mechanical seal.

Pump certified according to 3A sanitary standards.

Very robust stainless steel cast lantern

IEC B5 motors (B14 for S-15, B35 motors T.200, 225, 250 and B3 for close-coupled models), IP55, F-class insulation.

Pump support from AISI 304

I Materials

Parts in contact with pumped media:

AISI 316L

Other parts in stainless steel

AISI 304

Gaskets (standard)

EPDM (FDA)

Mechanical seal (standard)

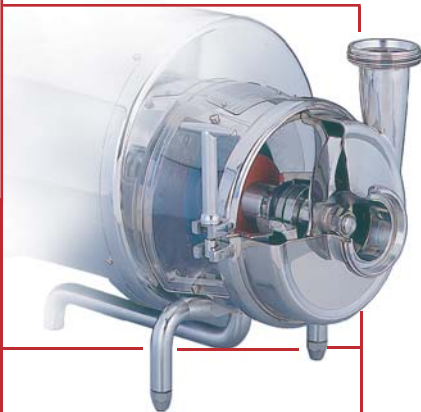
St.St/C/EPDM

Inside surface finishing

$Ra \leq 0.8 \mu m$.

Outside surface finishing

Mirror polished



Shaft

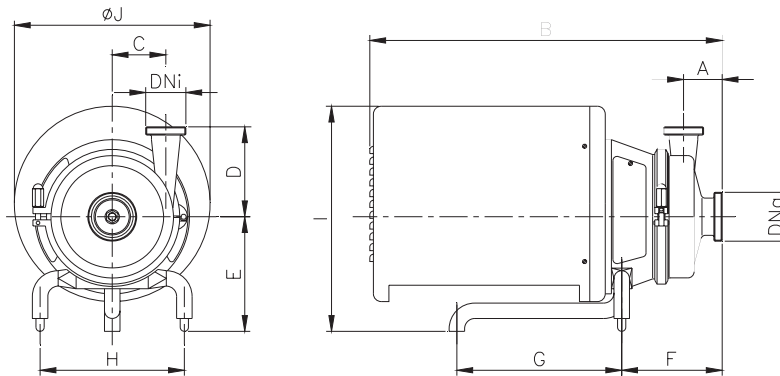


I Options

- Bare-shaft construction for models S-35, S-38, S-70, and S-80.
- Mechanical seals in SiC/C, SiC/SiC or TgC/SiC
- Cooled or double mechanical seal
- Gaskets in FPM (Viton®) and PTFE
- Ra≤0,4 surface finishing
- Self-priming casing
- Heating chamber
- Drainage connection
- Connections: Clamp, SMS, RJT...
- Motors with additional protection
- Trolley and/or Switchboard

I Technical specifications

Max. flow	425 m ³ /h / 1880GPM
Max. head	200 mcl / 290 ft
Max. suction pressure	4 bar / 58 PSI
Max. working temp.	120 °C / 248°F
Max. speed	3500 min ⁻¹



PUMP PROLAC	Motor size	DNa	DN1	A	B	C	D	E	F	G	H	I	J	
S-15	A	71	40 1½"	32 1½"	55	415	55	100	130	137	175	155	260	220
	B	80	50 2"	40 1½"	55	485	74	140	165	152	235	205	325	270
S-20	C	90												
	B	80	65 3"	50 2"	55	495	72	150	165	162	235	205	325	270
S-26	E	100/112				575			190	172	275	205	375	330
	B	80	40 1½"	40 1½"	65	485	107	165	165	156	235	205	325	270
S-28	C	90							190	166	275		375	330
	E	100/112				570			190	166	275		375	330
S-35	C	90	65 3"	50 2"	75	500			165	170	235	205	325	270
	F	132				685	104	175	230	193	320	280	445	380
S-38	C	90	100 4"	65 3"	75	500			165	170	235	205	325	270
	E	100/112				585	98	180	190	180	275	205	375	330
	G	160				870			280	237	355 425	320	555	465
	H	180									425		495	380
S-70	F	132	100 4"	65 3"	92	735					425		495	380
	G	160				880	148	212	280	243	355	320	555	465
	H	180									425		555	465
S-80	G	160	125 5"	100 4"	115	903	195	230	280	270	355	320	555	465
	H	180									425		555	465

Dimensions with DIN 11851 connections

