



# The Standard Duty Pump

## SolidC Centrifugal Pump

### Applications

The SolidC pump is designed for standard duty applications, like pumping CIP (Cleaning In Place) solutions, utilities, water (processing, heating, cooling), washing machines, simple transport duty within working range. SolidC is suited for use in the food, dairy, beverage, personal care, pharmaceutical, light chemical and water industries.

### Standard design

The SolidC pump is designed for CIP with emphasis on large internal radii and cleanable seals.

SolidC has a stainless steel shroud for protection of the motor, and the complete unit is supported on four adjustable legs.

### Shaft seals

The SolidC pump is equipped with either an external single or a flushed shaft seal. Both have stationary seal rings in acid-resistant steel AISI 329 with sealing surface in silicon carbide and rotating seal rings in carbon. The secondary seal of the flushed seal is a long lasting lip seal.



### TECHNICAL DATA

#### Materials

Product wetted steel parts: . . . . . W. 1.4404 (316L).  
Other steel parts: . . . . . W. 1.4301 (304).  
Finish: . . . . . Blasted (standard)  
3A polishing (Ra 0.8).  
Product wetted seals: . . . . . EPDM (acc. to FDA).

#### Connections for FSS:

R 1/8" (BSP) external thread.

#### Motor

Foot-flanged motor according to the IEC metric standard (EFF II), 2 poles = 3000/3600 rpm. at 50/60 Hz, IP 55 (with drain hole with labyrinth plug), insulation class F.

#### Motor sizes

50 Hz: . . . . . 1.1 - 22 kW  
60 Hz: . . . . . 1.3 - 25 kW

#### NOTE!

When used with frequency converter the 22 kW motor only has 20 kW effect.

#### Warranty

Extended 3-years warranty on the SolidC Centrifugal Pump range.  
The warranty covers all non wear parts on the condition that genuine Alfa Laval Spare Parts are used.

### OPERATING DATA

#### Pressure

Max. inlet pressure: . . . . . 400 kPa (4 bar).

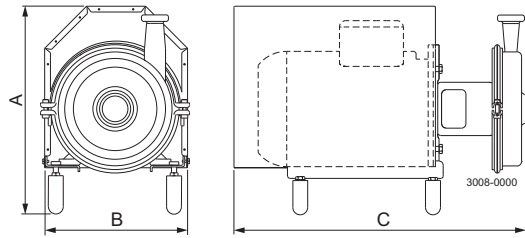
#### Temperature

Temperature range: . . . . . -10°C to +120°C (EPDM).

#### Flushed shaft seal (FSS):

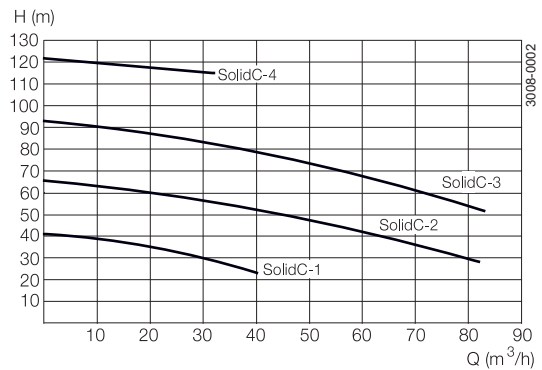
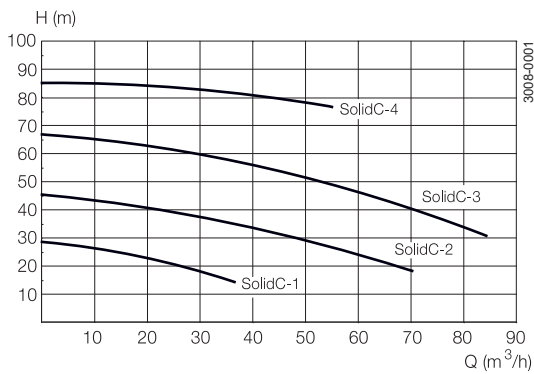
Water pressure inlet: . . . . . max. 100 kpa (1 bar).  
Water consumption: . . . . . 0.25 -0.5 l/min.

**Dimensions (mm)**



	SolidC-1				SolidC-2				SolidC-3			SolidC-4			
Motor kW	1.5	2.2	3	4	3	4	5.5/7.5	11	5.5/7.5	11/15	18.5	5.5/7.5	11/15	18.5/22	
A min	392	392	417	447	417	447	478	556	478	556	556	478	556	556	
A max	407	407	432	462	432	462	493	571	493	571	571	493	571	571	
B	235	235	285	285	285	285	335	385	335	385	385	335	385	385	
C	499	499	549	552	559	559	691	819	683	812	812	682	811	811	

**Flow chart**



**Options**

- A. Impeller with reduced diameter.
- B. Motor for other voltage and/or frequency.
- C. 1500 rpm. motor.
- D. Flushed shaft seal.
- E. Product wetted seals of Nitrile (NBR), Fluorinated rubber (FPM) or FEP.
- F. Rotating seal ring material in Silicon Carbide.

**Ordering**

Please state the following when ordering:

- Pump size.
- Connections.
- Impeller diameter.
- Motor size.
- Voltage and frequency.
- Flow, pressure and temperature.
- Density and viscosity of the product.
- Options.

**Note!**

For further details, see also IM 70821.

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**How to contact Alfa Laval**

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