



When Higher Purity is the Issue

SolidC UltraPure Centrifugal Pump

Applications

The SolidC UltraPure pump is an efficient and economical centrifugal pump, which meets the requirements of the pharmaceutical industries. It provides gentle product treatment and is chemically resistant. SolidC UltraPure is available in four sizes, SolidC-1 UltraPure, SolidC-2 UltraPure, SolidC-3 UltraPure and SolidC-4 UltraPure.

Standard design

As standard the SolidC UltraPure is delivered with a 45° outlet (counterclockwise).

The SolidC UltraPure pump is designed for CIP and SIP with emphasis on large internal radii and cleanable seals. SolidC UltraPure is supported on four adjustable legs.

Shaft seals

The SolidC UltraPure 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 silicon carbide. The secondary seal of the flushed seal is a long lasting lip seal.



TECHNICAL DATA

Materials

Product wetted steel parts: . . . W. 1.4404 (316L) with material traceability EN.10204.3.1

Other steel parts: Stainless steel.

Product wetted seals: EPDM USP class 6.

Finish: Bright (Ra 0.5).

Connections for FSS:

6mm tube/Rp 1/8".

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 UltraPure 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).

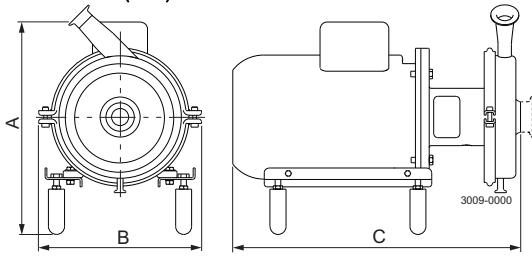
Flushed shaft seal (FSS):

Water pressure inlet: max. 100 kpa (1 bar).

Water consumption: 0.25 -0.5 l/min.

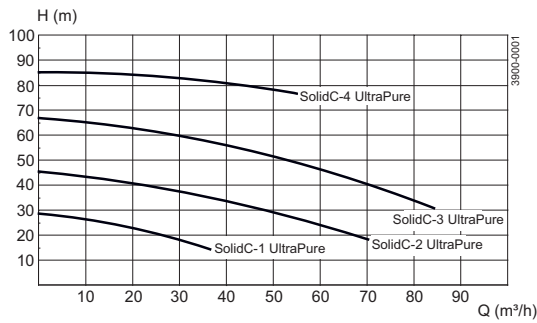


Dimensions (mm)

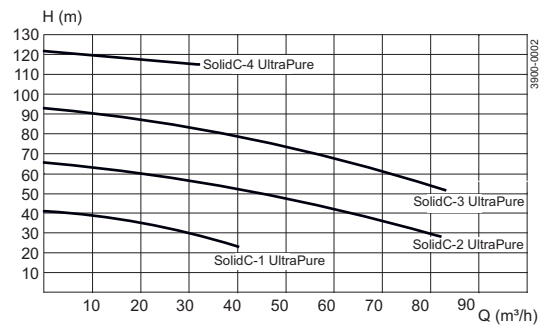


		SolidC-1 UltraPure				SolidC-2 UltraPure				SolidC-3 UltraPure			SolidC-4 UltraPure		
Motor	kW	1.5	2.2	3	4	3	4	5.5/7.5	11	5.5/7.5	11/15	18.5	5.5/7.5	11/15	18.5/22
A	min	345	345	369	397	369	397	444	515	444	515	515	444	515	515
A	max	360	360	384	412	384	412	459	530	459	530	530	459	530	530
B		305	305	305	305	349	349	349	349	390	390	390	410	410	410
C		455	455	486	508	496	515	634	700	631	693	749	632	692	748

Flow chart



Frequency: 50 Hz
Speed /synchr.): 3000 rpm



Frequency: 60 Hz
Speed /synchr.): 3600 rpm

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 Fluorinated rubber (FPM) or FEP.
- F. Pump with shroud.
- G. Pump without legs.
- H. 0° outlet, see drawing below.
- I. No Drain.
- J. Finish product wetted surface Ra 0.8 µm.
- K. Finish product wetted surface Ra 0.5 µm (electropolished).
- The final surface value will change after electropolishing.
- L. Surface finish certificate.
- M. SIP to 140°C.

Standard documentation package:

- 3.1 certificate according to EN10204
- FDA certificate of conformity for product wetted elastomers.
- USP class 6 certificate of conformity - EPDM only
- Pump performance test certificate

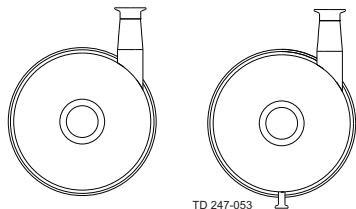
Ordering

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.



No Drain

0°outlet

Alfa Laval reserves the right to change specifications without prior notification. ALFA LAVAL is a trademark registered and owned by Alfa Laval Corporate AB.

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How to contact Alfa Laval

Contact details for all countries are continually updated on our website. Please visit www.alfalaval.com to access the information direct.