

Alfa Laval SolidC

Centrifugal pumps



Introduction

The Alfa Laval SolidC Centrifugal Pump is designed for basic transport of fluids in hygienic applications. It provides reliable, low-maintenance operation. With its hygienic design, cost-effective operation and quick, easy maintenance, the SolidC offers excellent value for money.

Applications

Designed for Cleaning-in-Place (CIP), the Alfa Laval SolidC is ideal for basic duties across the dairy, food, beverage and personal care industries in which hygienic treatment is required. Typical applications are pumping of CIP solutions, utilities, cooling or heating water, and other simple transport duties.

The SolidC pump is available in four sizes to handle capacities up to 75 m³/hour and differential pressures up to 8 bar at 50Hz.

Benefits

- Hygienic: designed according to international hygienic design standards and with verified effective CIP cleanability.
- Cost-effective operation: consistent performance ensured.
- Quick and easy maintenance: wear parts changed in just a few minutes.

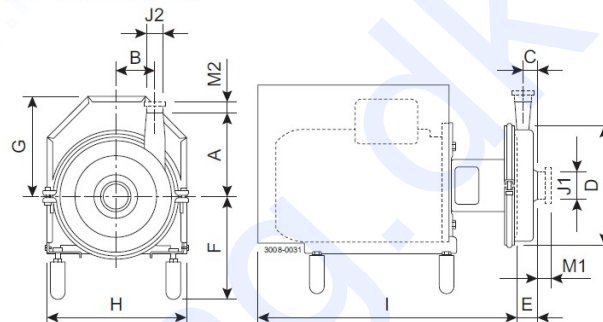
Standard design

All media contacting steel components like pump casing, impeller, impeller nut and backplate are in W. 1.4404 (AISI 316L). A stainless steel shroud protects the motor and four adjustable stainless steel legs support the complete unit.

The semi-open impeller with a special vane design and balance holes enhance circulation around the shaft seal and reduce axial forces. This maximizes cleanability while minimizing wear on the shaft seal and motor bearings.

As standard, the SolidC pump is equipped with a single mechanical shaft seal, but is also available with a single flushed mechanical shaft seal. The secondary seal of the flushed seal is a long-lasting lip seal. The front-loading shaft seal, with the spring and washers mounted on the atmospheric side, makes maintenance fast, easy and inexpensive. It takes just a few minutes to replace the shaft seal. In addition, the balanced design minimizes the risk of seal opening during unforeseen pressure shock.

Dimensions (mm)



Pump specific measures (mm)

Pump Model	SolidC-1
A	180
B	67
C	28
D	238
E	40

OPERATING DATA

Max inlet pressure

SolidC 1 - 4:	400kPa (4 bar)
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Temperature

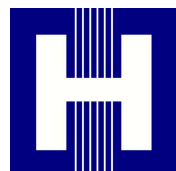
Temperature range:	-10°C to +120°C (EPDM)
Flush media:	Max 70°C

Flushed shaft seal

Water pressure inlet:	Max. 1 bar
Water consumption:	0.25 -0.5 l/min

Connections for flushed shaft seal

SolidC 1 - 4:	1/8" G
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Alfa Laval Type SOL TDC-1

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Alle mål i mm.
All measures in mm.

Lager nr. /LH

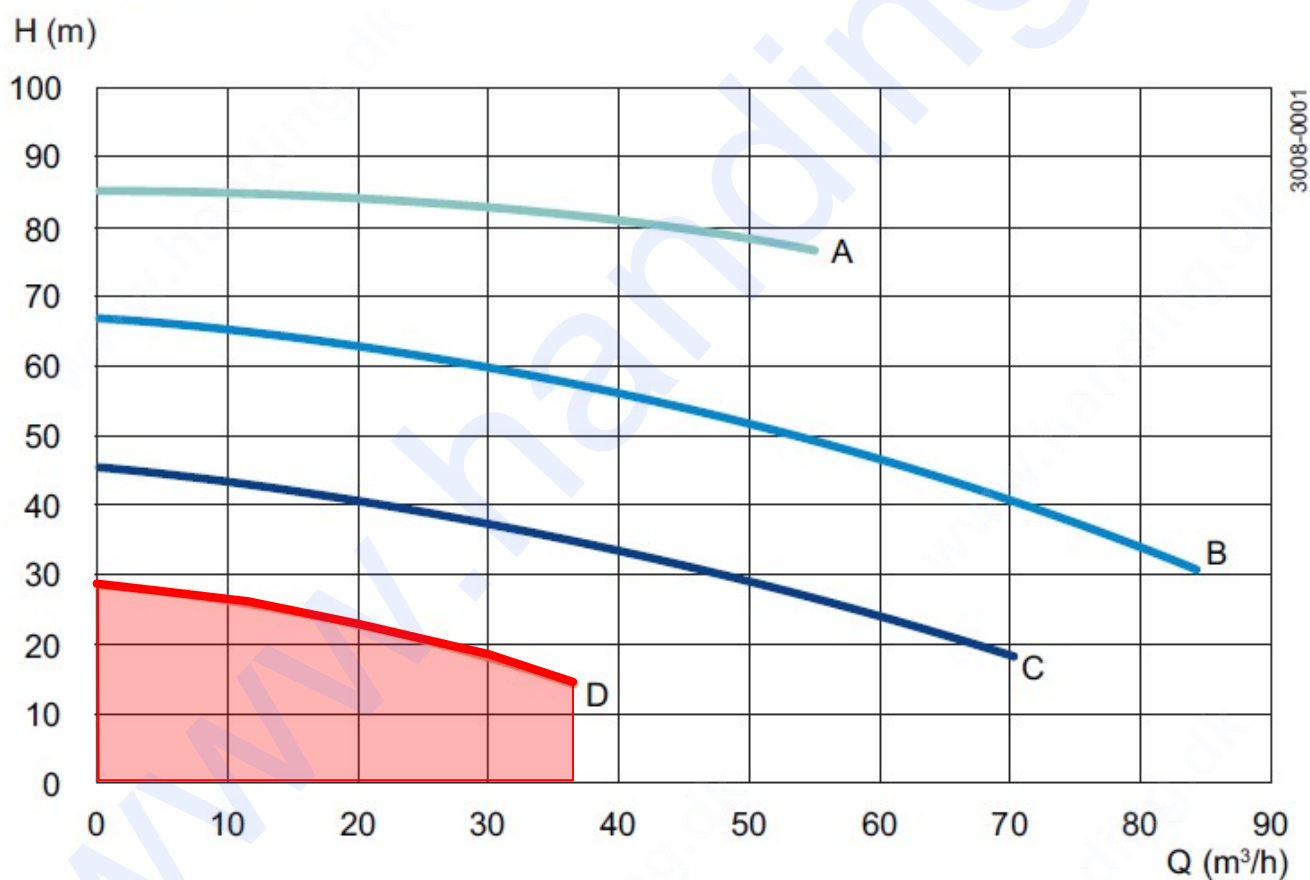
PC1392



Motor: 3000 rpm. synchr.
Tolerance: $\pm 8\%$ for Q
 $\pm 6\%$ for H
Impeller, Max. dia.: 160 mm
Impeller, Min. dia.: 110 mm
Pump inlet, Dia.: Dia.: 51 mm, DN 50
Pump outlet, Dia.: Dia.: 38 mm, DN 40

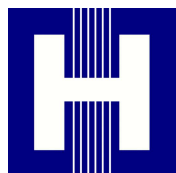
Performance data refer to water at 20 °C.

Flow chart



A = SolidC-4
B = SolidC-3
C = SolidC-2

D = SolidC-1



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