The tubular heat exchanger series from Alfa Laval

ViscoLine™ CIP Unit

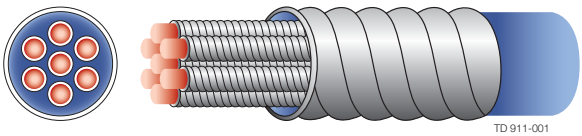
Applications
The ViscoLineTM CIP unit is ideal for heating of water or CIP solutions by means of steam, less demanding applications to process low and average viscosity products. Products can contain fibres and small particulates. Also suitable for general heating and cooling applications.

Working principle
The heat exchanger is formed by a tube bundle (welded at both ends onto flat tube plates) inside a shell. Product medium flows inside the tubes of the bundle and the service medium between and around these tubes.
This makes it compact and easy to install.

All tubes are connected in parallel and in counter-current flow to the service medium. The product tubes are corrugated. The service media shell is smooth.

Standard materials
Product side (tubes): . . . . . .AISI 316
Service side (shell): . . . . . .AISI 304
Frame: . . . . . .AISI 304

Vertical installation is recommended for steam to water heating



Graphic representation of the flow pattern in the ViscoLine CIP Unit.

Standard design
ViscoLine CIP and water heater is available in 4 sizes.

Technical data
Mechanical design pressure
10 bar (145 PSI) on tubes and shell side. Complies with the European Pressure Equipment Directive (PED).
Design temperature 150°C (302°F).

Connections
Product side (tubes): . . . . . .DIN standard flanges
Service side (shell): . . . . . .DIN standard flanges



ViscoLine CIP with open sectional view, hard corrugated

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Designation

VLC19x18/129-2.0-316/304-H



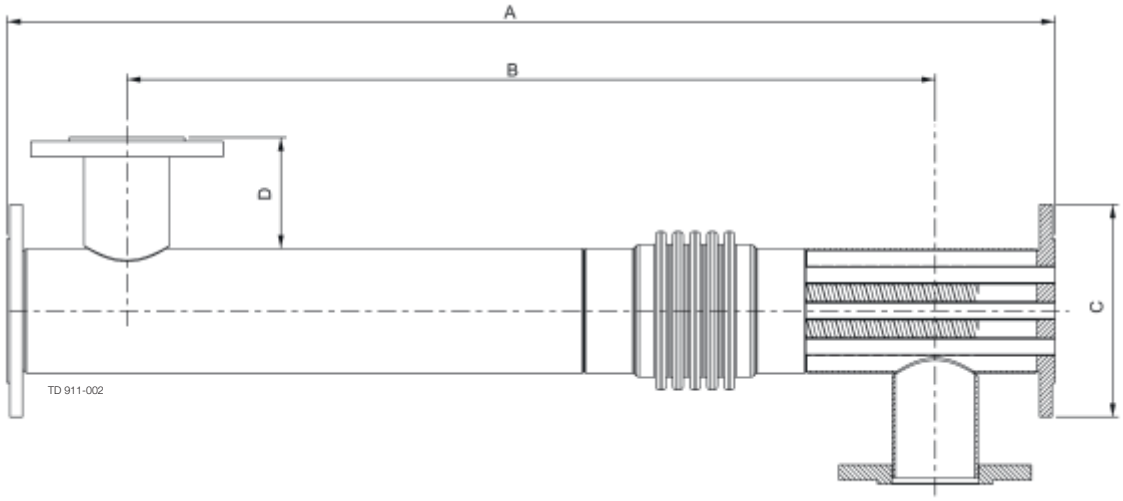
VLC: . . . . . .ViscoLine CIP
Number of tubes: 19
Outer diameter of product tubes (mm): .18
Outer diameter of service shell (mm): . .129
Module length (m): 2.0
Material tube side: 316
Material shell side: 304
Tubes are hard corrugated: . . . . . .H

Designation

Type	Nr. of tubes	Tube Ø mm		Shell Ø mm		Module lenght		Volume tubes		Article nr.
		mm	inches	mm	inches	mm	inches	liters	US gallons	
VLC13x18/104-2,0	13	18	0.71	104	4.09	2.0	79	5.20	1.37	10060404
VLC19x18/129-2,0	19	18	0.71	129	5.08	2.0	79	7.60	2.01	10060403
VLC37x18/168-2,0	37	18	0.71	168	6.61	2.0	79	14.9	3.93	10060406
VLC37x18/168-3,0	37	18	0.71	168	6.61	3.0	118	22.3	5.89	10060409

Measurement in mm

Type	A		B		C		D		Shell side	Tube side
	mm	inches	mm	inches	mm	inches	mm	inches		
VLC13x18/104-2,0	1939	76	1690	66	200	7.8	114	4.5	DN65	DN80
VLC19x18/129-2,0	1939	76	1690	66	220	8.6	115	4.5	DN80	DN100
VLC37x18/168-2,0	1939	76	1677	65	285	11.2	115	4.5	DN80	DN150
VLC37x18/168-3,0	2939	116	2677	105	285	11.2	115	4.5	DN100	DN150



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The information contained herein is correct at the time of issue, but may be subject to change without prior notice.

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.