

I Application

The HCLB pump is a positive displacement lobular rotating pump of a sanitary design providing high performance and maximum reliability with a reduced size.

This pump is perfect for managing all kinds of fluid, of either low or high viscosity, in the food-processing, dairies, and cosmetic industries as well as for filtering and bottling applications. Fluids containing fragile solids such as junket, can be pumped without damage thanks to the specially designed lobes.

I Operating principle

The HCLB pumps basically consist of two lobe rotors which rotate synchronously inside a casing without touching each other.

As the rotors rotate, the spaces between the lobes and the casing are successively filled with fluid, which is transported to the discharge nozzle with a fixed amount of displacement. The pumped fluid forms a continuous stream thanks to the tolerances between the lobes and the pump casing, thus ensuring an efficient pumping.

I Design and features

Close-coupled construction.

Casing and cover in stainless steel (investment casting).

Tri-lobe rotors.

Sanitary design of the attachment of the rotors.

DIN connections.

Sanitary mechanical seals.

Easy cleaning and maintenance.

I Materials

Parts in contact with the product AISI 316L
Other parts AISI 304
Support GG-15

Gaskets EPDM in compliance with FDA

Mechanical sealsC/SiC/EPDMInternal surface finish $Ra < 0.8 \mu m$ External surface finishbright polish







I Options

Mech.seals in SiC/SiC, TgC/SiC, C/StSt.

Packing with lip seal. Gaskets: FPM. External by-pass.

Bi-wing lobes.

AISI 304 drive shroud.

Several kinds of drives and protections (gearbox drive with optional

frequency converter pulley drive speed selector).

Trolley and/or switchboard.

Connections: Clamp, SMS, RJT, etc.

I Technical specifications

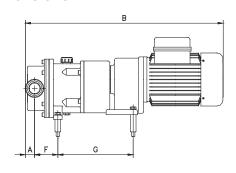
41 m³/h Max. flow 180 GPM Max. pressure 12 bar 174 PSI 120 °C 248°F Max. working temperature 950 rpm

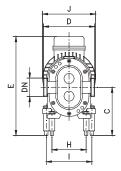
Max. speed

Max. differential pressure:

HCLB 1-25, 2-40, 3-50 12 bar 174 PSI HCLB 1-40, 2-50, 3-80 7 bar 102 PSI

I General dimensions





TYPE	Motor gear		DN	Α	В	С	D (*)	Е	F	G	н	1	J
	kW	Size	DN	А	Ь	C	ט (״)		, T	G		'	,
HCLB 1-25	0,55 - 0,75	SK 01/80	25 1"	26	600	150	158	295	71	275	105	105	181
	1,1 – 1,5	SK 01/90			650			300					
HCLB 1-40	0,75	SK 01/80	40 1½"	33	615		166	295					
	1,1 – 1,5	SK 01/90			665			300					
HCLB 2-40	1,1 - 1,5	SK 20/90			695	170	190	325	82	265	120	160	203
	2,2	SK 20/100			725			355					
HCLB 2-50	1,5	SK 20/90	50 - 2"	39	705		194	325	87				
	2,2	SK20/100			735			355					
HCLB 3-50	2,2 - 3	SK25/100			840	- 227	239	435	97	427	- 160	155	228
	4	SK25/112			863			445					
HCLB 3-50	5,5	SK33/132			920			470		413		175	266
HCLB 3-80	3	SK30/100	- 80 - 3"	55	865		256	435	108	348		185	228
	4	SK30/112			890			445					
HCLB 3-80	5,5 - 7,5	SK33/132			945			470		413		175	266

^(*) Dimensions with DIN 11851 connections







