I Application
The SLR pump is a positive displacement lobe rotor pump of a sanitary design suitable for use in the dairies, food-processing, beverage, cosmetics, pharmaceutical and fine chemicals industries.
This pump is perfect for managing all kinds of fluid, of either low or high viscosity, as well as for filtering and bottling applications. Products containing fragile solids such as junket can be pumped without damage thanks to the specially designed lobes.

I Operating principle
The SLR 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 the product, 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
Horizontal support.
Bare-shaft construction.
Stainless steel casing and lobes.
Tri-lobe rotors.
Sanitary design of the attachment of the rotors.
Sanitary mechanical seals.
Easy cleaning and maintenance.
Standard connections: DIN 11851.

I Materials
Parts in contact with the product: AISI 316L
Bearing support: GG 25
Gaskets: EPDM according to FDA 177.2600
Mechanical seal: SiC/C/EPDM
Internal surface finish: Ra ≤ 0.8 μm
External surface finish: bright polish
Lobe Rotor Pump

I Options

Mechanical seals: SiC/SiC or TuC/SiC.
Cooled mechanical seal, pressurised double mechanical seal, lip seal or O-ring seal.
Gaskets in FPM and PTFE.
Relief valve on the front cover or external by-pass.
Bi-wing lobes.
Heating chamber.
Isolation can.
Vertical support.
Rectangular nozzle.
Various kinds of drives and protections (gearbox drive with optional frequency converter, pulley/mechanical drive speed selector).
Trolley and/or control panel.
Connections: clamp, SMS, RJT, etc.
ATEX version available.

I Technical specifications

Max. flow: 160 m³/h  705 US GPM
Max. differential pressure: 12 bar  174 PSI
Max. working pressure: 16 bar  232 PSI
Max. working temperature: -10 ºC - +120 ºC (EPDM)  14 ºF - 248 ºF
+140 ºC (SIP, max. 30 min)  284 ºF
Max. speed: 950 rpm

I General dimensions

The information contained in this brochure is for guidance only. We reserve the right to modify any material or feature without notice in advance. For further information, please, consult our web site.

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