



Lobe Pump Stursan

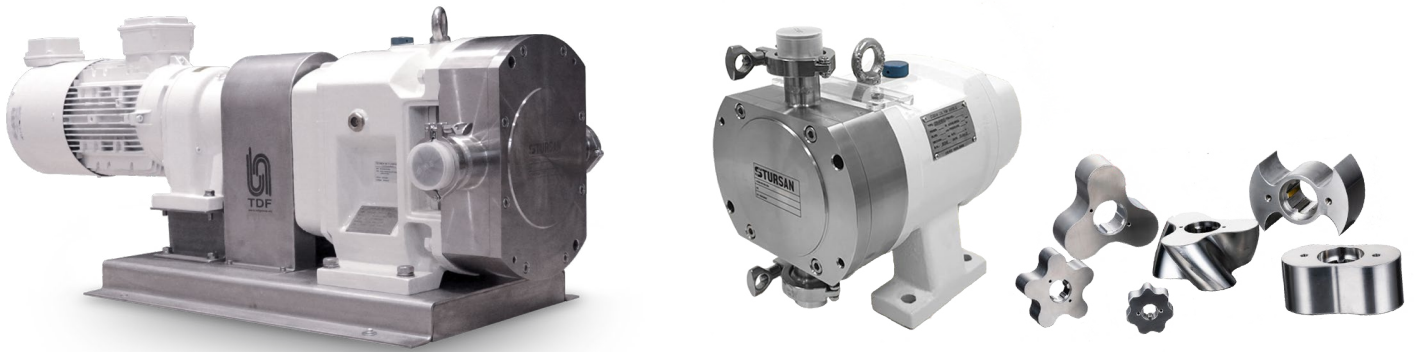
**Pumping solutions for the food, beverage,
pharmaceutical and chemical industry**

STURSAN

Rev 1. 07/2024

Lobe Pumps

LX Series



Stursan LX Series stainless steel rotary lobe pumps.

Handling from low to high viscosity pumped media the characteristic smooth, low shear pumping action is ideal for delicate media and where organic solids in suspension, creams, froths, gels, emulsions and mixtures are to be pumped.

Available with different types of rotors.

- **Max. Flow Rate:** 200 m³/h
- **Max. Differential Pressure:** 12 Bar
- **Temperature:** 130°C
- **Max. rev:** 720 rpm
- **Viscosity:** From 1 to 1.000.000 cps

Pump Model	Capacity for tri-rotor (L/r)	Rotation speed (r/min)	Rated flow (m ³ /h)	Max. Discharge Pressure bar	Standard Port Size DN (mm)	Enlarged Port Size DN (mm)
LX15	0,04	10-720	0,5	12	15	25
LX25	0,15	10-720	2,0	12	25	40
LX40	0,32	10-500	5,0	12	40	50
LX50	0,65	10-500	10,0	12	50	65
LX60	1,1	10-500	15,0	12	65	80
LX65	1,74	10-500	20,0	12	65	80
LX75	2,6	10-500	30,0	12	80	100
LX80	3,65	10-500	40,0	12	100	125
LX100	5,20	10-500	60,0	12	125	150
LX125	6,80	10-500	80,0	12	125	150
LX140	9,80	10-400	120,0	12	150	200
LX150	12,80	10-400	150,0	12	150	200
LX200	16,00	10-300	200,0	12	200	250

Materials

- **Wetted parts:** AISI-316L or AISI-316 or AISI-304 Stainless.
- **Rotor:** AISI-316L or AISI-316 or AISI-304 Stainless. Available with different type of rotors.
- **Mechanical Seal:** Simple SiC/SiC or TC/TC with and without Flush. Double SiC/SiC or TC/TC with Flush. Special sealing for chocolate.
- **O’rings:** EPDM, FKM, NBR (FDA)

Surface finished

- Surface finished:** Hygienic quality, hand polished welds.
- Standard (Wetted parts Ra < 0,8)
 - On demand (Wetted parts Ra < 0,5)

Connections

- **Input/Output connection:** DIN 11851 / SMS/ ISO / IDF / RJT / ASME BPE 3A.
- **Type:** thread, clamp, flange, aseptic flange.

Certification and Compliance



Applications



- **Food and Drink:** Soups, Stews, Tomato Paste, Vegetables, Dressings, Chocolate, Fats & Oils, Cream Fillings, Brewery, Wort, Soft/Fruit Drinks, Meat Processing.



- **Dairy:** Cream, milk, cheese curd and whey, cottage cheese, yogurt.



- **Pharmaceutical/Cosmetics:** Pill Pastes, Syrups, Extracts, Slurries, Face Creams & Lotions, Hair Styling Gels & Liquids, Dyes & Alcohols, Soaps, Cosmetics.



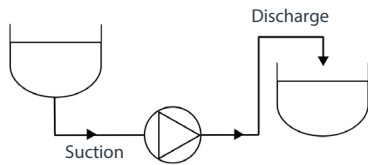
- **Chemical/Industrial:** Paints, Fuels, Resins, Polymers & Sludges, Oil & Lubricants.

Application Data Sheet: Lobe pumps

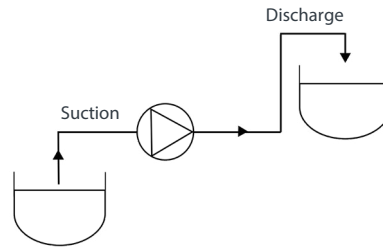
Pump Type: Lobe

Process Requirements

Positive installation head



Negative installation head



Suction Line

High (m) Length (m) Ø pipe (mm)

Adicional accesories

Discharge Line

High (m) Length (m) Ø pipe (mm)

Adicional accesories

Duty

Continuous	Intermintent	Hours per day
Assembly location	Outside	Inside
Corrosive environment	Yes	No
Temperature environment and humidity		

Process Parameters

Flow Rate l/min Max Pressure Bar

Fluid description

Name	Concentration
Max Viscosity (cP @ °C)	Does the end product tend to foam?
Density (Kg/m3)	No A Little A Lot
ProcessTemp (°C)	Is the fluid abrasive?
Max Temp (°C)	No Slightly Very
Solids Yes No Quantity (%) Size (mm)	
Flow Properties similar to:	


Requirements


Connections Polish Gasket material

Electrical Requirements

Voltage Phase Hz IP Inverter Yes No



 info@stursan.com

 www.stursan.com