



Lobe pump

**Advanced Pumping Solutions for the Food, Beverage,
Pharmaceutical, and Chemical Industries**

Lobe pumps

Stursan lobe pumps are manufactured in 316L.

Designed for low and high viscosity fluids and have a characteristic smooth, low-shear pumping action, making them ideal for delicate materials, as well as for pumping organic solids in suspension, creams, foams, gels, emulsions and mixtures.

Serie RX



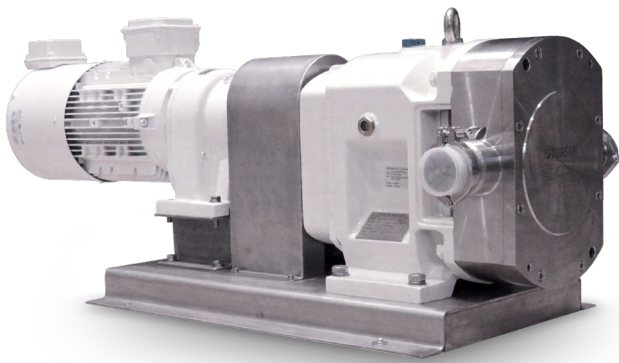
Stursan RX lobe pumps are manufactured in stainless steel, including both the wetted parts and the gearbox.

- **Max. flow rate:** 80 m³/h
- **Max. differential pressure:** 12 bar
- **Temperature:** 130 °C
- **Max. revolutions:** 900 r. p. m.
- **Viscosity:** 1.000 000 cps

Pump Model	Tri-lobe Rotor Capacity (L/r)	Speed (r/min)	Nominal Flow Rate (m ³ /h)	Maximum Discharge Pressure (bar)	Standard Connection DN (mm)	Enlarged Connection DN (mm)
RX01	0,02	900	2.3	9	20	25
RX02	0,1	900	7	9	25	40
RX2D	0,15	900	10	8	40	50
RX03	0,27	700	15	12	40	50
RX3D	0,3	700	20	8	50	65
RX04	0,67	600	30	12	50	65
RX4D	1,04	600	45	8	65	80
RX05	1,76	400	70	12	80	100
RX5D	2,4	400	80	8	100	125

Lobe pumps

Serie LX



Stursan LX lobe pumps are made of stainless steel.

Available with different types of rotors.

Ensure smooth, controlled pumping, ideal for sensitive fluids. They preserve the properties of the product, maintaining its quality intact from the beginning to the end of the process.

- **Max. flow rate:** 200 m³/h
- **Max. differential pressure:** 12 bar
- **Temperature:** 130 °C
- **Max. revolutions:** 720 r. p. m.
- **Viscosity:** De 1 a 1 000 000 cps

Pump Model	Tri-lobe Rotor Capacity (L/r)	Speed (r.p.m.)	Nominal Flow Rate (m ³ /h)	Maximum Discharge Pressure (bar)	Standard Connection DN (mm)	Enlarged Connection 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:** Standard AISI-316L and AISI- 316 or AISI-304 as option.
- **Rotor:** AISI-316L or AISI-316 or AISI-304 stainless steel. Available with different types of rotors (LX).
- **Mechanical seal:** Single SiC/SiC or TC/TC with and without flush. Double SiC/SiC or TC/TC with flush. Special seal for chocolate (LX).
- **FDA O-rings:** EPDM, FKM, NBR, FPMX.

Surface finished

- Hygienic quality, hand-polished welds.
- Standard (parts in contact with the fluid Ra < 0.8).
 - On request (parts in contact with the fluid Ra < 0.5).

Connections

- **Industrial:** BSP thread, NPT thread, EN1092-2 flange
- **Sanitary:** DIN11851 thread, SMS thread, DIN11864-2 flange, ASME BPE clamp

Certificates and compliance



Applications



- **Food and drink:** Soups, stews, tomato paste, vegetables, dressings, chocolate, fats and oils, cream fillings, beer, must, soft drinks/fruit drinks, meat processing.



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



- **Pharmaceuticals and cosmetics:** Pill pastes, syrups, extracts, lotions, face creams and lotions, styling gels and liquids, dyes and alcohols, soaps, cosmetic products.



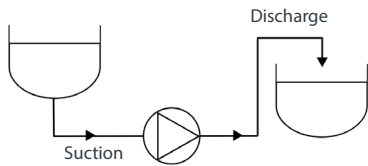
- **Chemical/Industrial:** Paints, resins, polymers and sludge, oils and lubricants.

Application Data Sheet: Lobe pumps

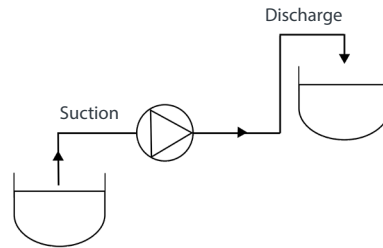
Pump Type: Lobe

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 Intermittent 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



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