

The strong one

ipp Rotary Lobe Pump Premiumlobe



Contact us
for professional consulting.

Make use of the options
provided by our **LobeSelect**
scientific design program
for complete designing to match
your requirements exactly.

The performance data given can only be
evaluated in isolation. The simultaneous reaching
of multiple technical limits may not be permissible.
In practice, the values that can actually be achieved
may be lower or higher than those given here,
depending on the type of product pumped and
the design of the actual unit that the pump is
incorporated into.

Type	Displacement [l/rev.]	Max. differential pressure [bar]	Max. rpm [min ⁻¹]	Connection width	Weight [kg]
L55sx	0.03	20	1400	DN 15	10.0
L55s	0.039	15	1400	DN 15	10.5
L55i	0.057	15	1400	DN 25	11.0
L55l	0.094	9*	1400	DN 40	12.0
L85sx	0.169	25	1100	DN 32	33.0
L85s	0.21	20	1100	DN 40	35.0
L85i	0.28	15	1100	DN 50	38.0
L85l	0.35	15*	1100	DN 65	40.0
L115sx	0.40	30	950	DN 40	90.0
L115s	0.55	20	950	DN 50	95.0
L115i	0.95	15	950	DN 80	101.0
L115l	1.23	15*	950	DN 100	110.0
L160sx	1.29	40	800	DN 50	220.0
L160s	1.60	30	800	DN 80	245.0
L160i	2.40	20	800	DN 100	270.0
L160l	3.41	15*	800	DN 150	320.0

*) Depending on the selected clearance



ipp PUMP PRODUCTS
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ipp PUMP PRODUCTS
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SOLUTIONS & TECHNOLOGY

The very best:

ipp Rotary Lobe Pump Premiumlobe



The conclusive concept – made in Germany ...

... for hygienic and non-hygienic applications – offers non-contacting pumping action in all operating situations. The result: no product contamination at all from abraded material while offering the maximum working life, an ideal precondition for use in demanding processes. The use of 1.4404 or 1.4435 stainless steel, seals that conform to FDA standards in the area that is in contact with the product, and stainless steel gearbox covers are all standard. The modular structure of the shaft seals and the gearbox ensure non-stop availability and a wide variety of configuration options for individual customization to meet the toughest requirements. CIP/SIP cleaning processes can be performed without any restrictions. Further performance details: Capacities up to 163 m³/h, differential pressures of up to 40 bar, depending on the model, and able to handle temperatures of up to 150°C, depending on the configuration.

The innovation:

We have done everything possible to ensure maximum functionality and performance. This ensures contact-free running under all operating conditions. The extremely robust design of the shafts and the gearbox minimize deflection of the shafts with the lowest possible thermal expansion. The direct arrangement of the bearings and shaft guides ensure the most precise possible positioning and concentricity of the rotors. The extremely short shaft overhang makes exceptionally high differential pressures possible, especially in the case of the sx models. The shafts that are completely isolated from the product are made of a material with a very low degree of thermal expansion. The seating of the synchronization gears on the shafts ensures that there is no play, thus assuring maximum durability even under extreme loads. The synchronization can easily be set by a timing device.

Materials, surfaces and lubricants:

We use 1.4404 or 1.4435 stainless steel for all parts that are in contact with the product, with a surface roughness of Ra = 0.8 µm (inside) and Ra = 1.6 µm (outside). A surface finish of up to Ra ≤ 0.4 µm can be produced, with and without electro-polishing, according to the wishes of the customer. "Cold" welding processes are used to preserve the properties of the material and to reduce any thermal deformation. Lubricants conforming to NSF-H1 are standard.

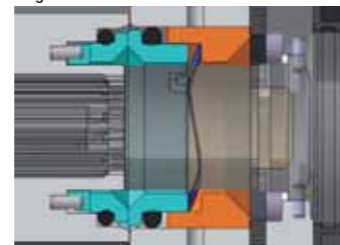
Connections:

All the types of connectors that are currently standard can be produced. The usual ones are DIN11851 milk pipe and Triclamp DIN32676. Connectors in compliance with DIN2633, 2634, 2635 and DIN11864 can likewise be provided. The diameters can be either DIN or inch-based.

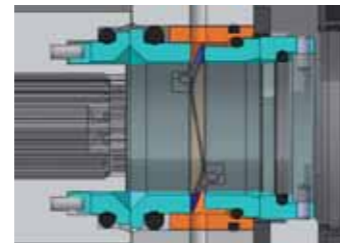
A number of configuration options:

- Heating and cooling channels and pockets
- Hygienic pressure relief valves, spring-load or compressed air-loaded
- Heatable pressure relief valves
- Profiled static seals for thorough cleaning without leaving any residues
- Gear rotors
- Drainage connectors at the front cover for full drainage when the pump connection is installed horizontally
- Individual adjustment of the pump feet to suit the specified dimensions for installation

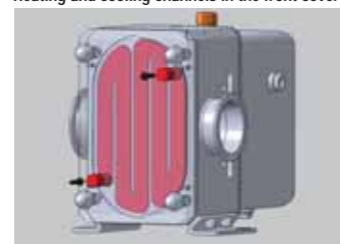
Single mechanical seal



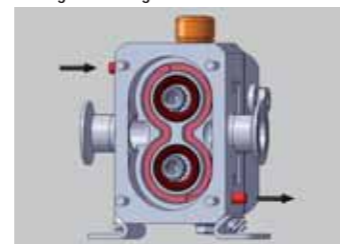
Double mechanical seal



Heating and cooling channels in the front cover



Heating and cooling channels in the rotor case



Hygienic pressure relief valves



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BLOOD PLASMA · ULTRAFILTRATES

1 CIP/SIP
Thorough cleaning without leaving any residues when the pump connection is installed horizontally or vertically. Can be drained fully due to the bevelling of the pump housing. (SDF = Self-Draining Features). If the pump connection is installed horizontally then an additional drainage connector is required at the pump housing cover.

2 Torsion-free bearing and gearbox construction for perfect guiding of the pump shafts. The gears are located without any play and have an adjusting mechanism for maximum precision of synchronization.

MODELL SX
For pressures up to 40 bar,
depending on size!

3 Duplex shafts with an extremely short shaft overhang for maximum stiffness and the best possible temperature behaviour, especially during CIP/SIP.

4 Quattrolobe rotors for quiet running and better performance. Ideal for CIP processes and applications involving a higher rpm. Optionally available made of non-galling alloy.

5 Biting rotor, very suitable for pumping solids as well. Optionally available made of non-galling alloy.

6 Mechanical seals built into the rotor – a prerequisite for maximum hygiene and pump performance, plus uncritical behaviour at all temperatures. On-line ease of maintenance.