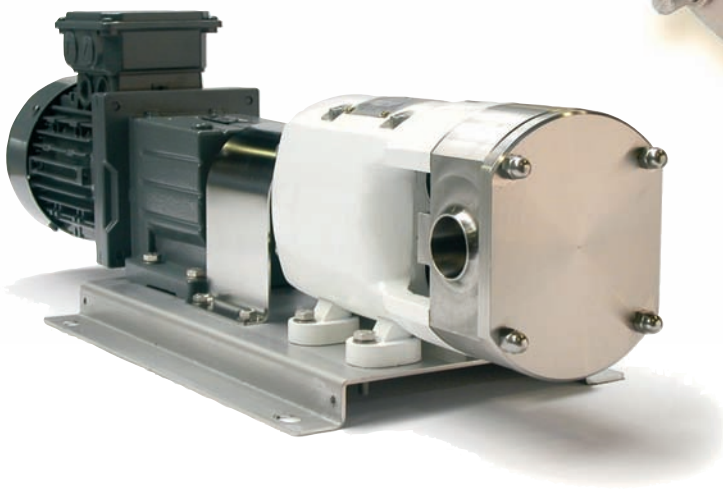




Stainless steel Rotary lobe pumps

ROTORFLO
SERIES L.P.R

FOR THE FOOD, BEVERAGE AND PHARMACEUTICAL INDUSTRIES



The **Packo BOA-Rotorflo** rotary lobe pump is designed specifically for the food, beverage, medical and pharmaceutical industries. It is used in all hygiene-conscious process industries.

The pump is EHEDG certified.

Rotary lobe pumps

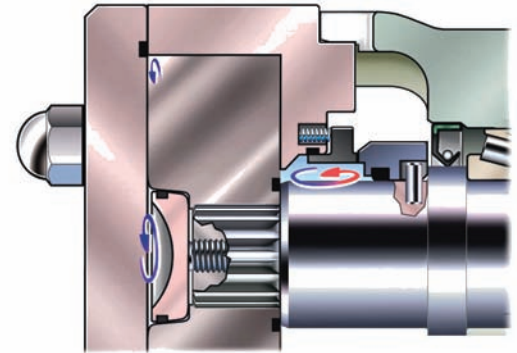


The compact BOA-ROTORFLO series of pumps is designed and manufactured to international standards, with all wetted parts in 316 stainless steel.

Displacement of the BOA-ROTORFLO is directly proportional to the rotational speed. The pumps fulfill the broad spectrum of process pumping duties where hygienic and non-corrosive operation is critical.

Developed especially for the food, beverage, medical, pharmaceutical and other hygiene-conscious industries, the BOA-ROTORFLO is a high performance, compact pump which requires little maintenance.

The advanced rotor profile of the BOA-ROTORFLO, generated from a pure geometric form, reduces product acceleration to a minimum within the pumping chamber. This ensures a smooth, quiet, low-shear operation, combined with reduced N.P.S.H. requirement over the full performance range.

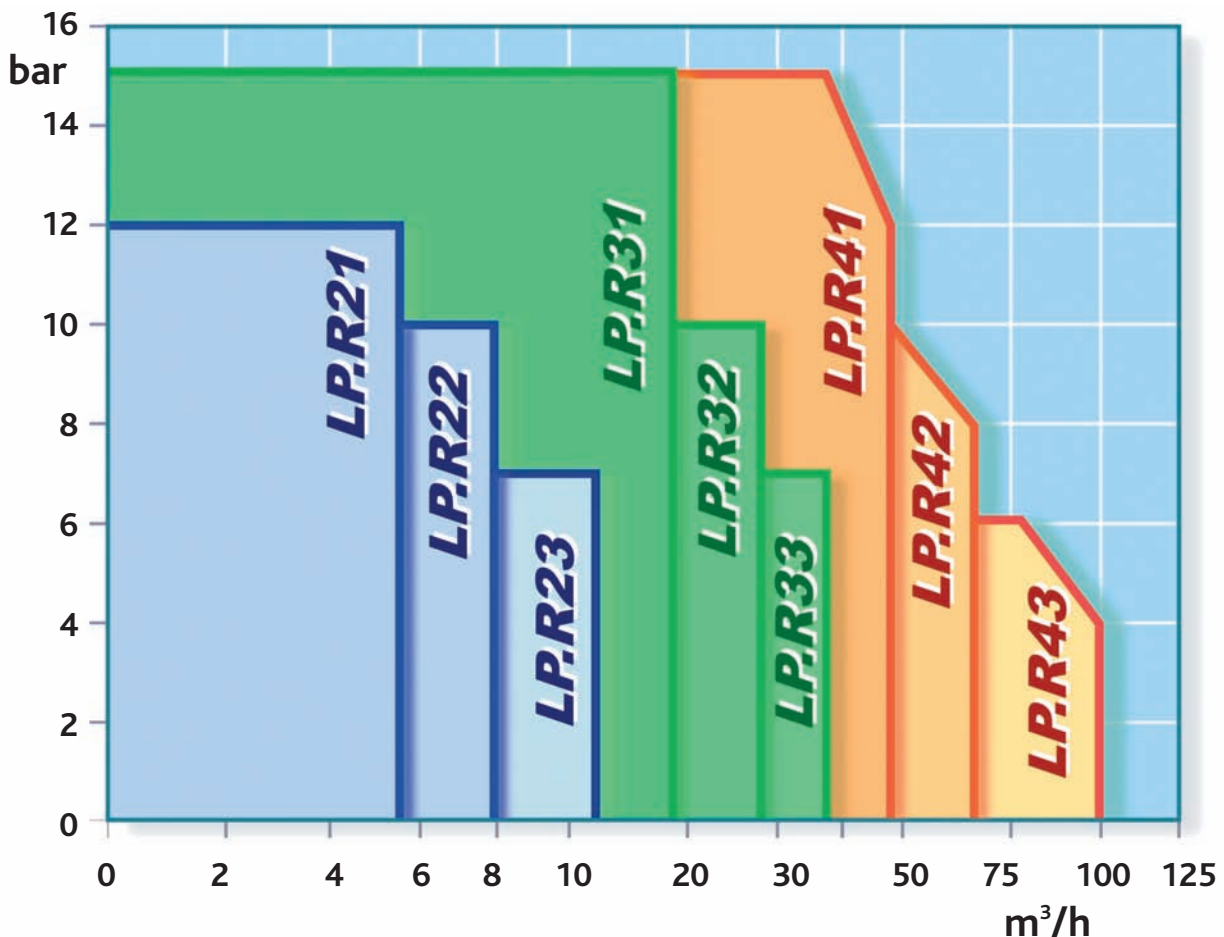


The low-shear characteristics of the BOA-ROTORFLO ensure the efficient transfer of all liquid viscosities up to semi-plastic including delicate suspended solids, aggressive slurries, pastes, froths and gas/liquid mixtures without damaging the product.

By incorporating a modular design, a specific pump build can be offered for a particular duty and this ensures optimum performance and economy.

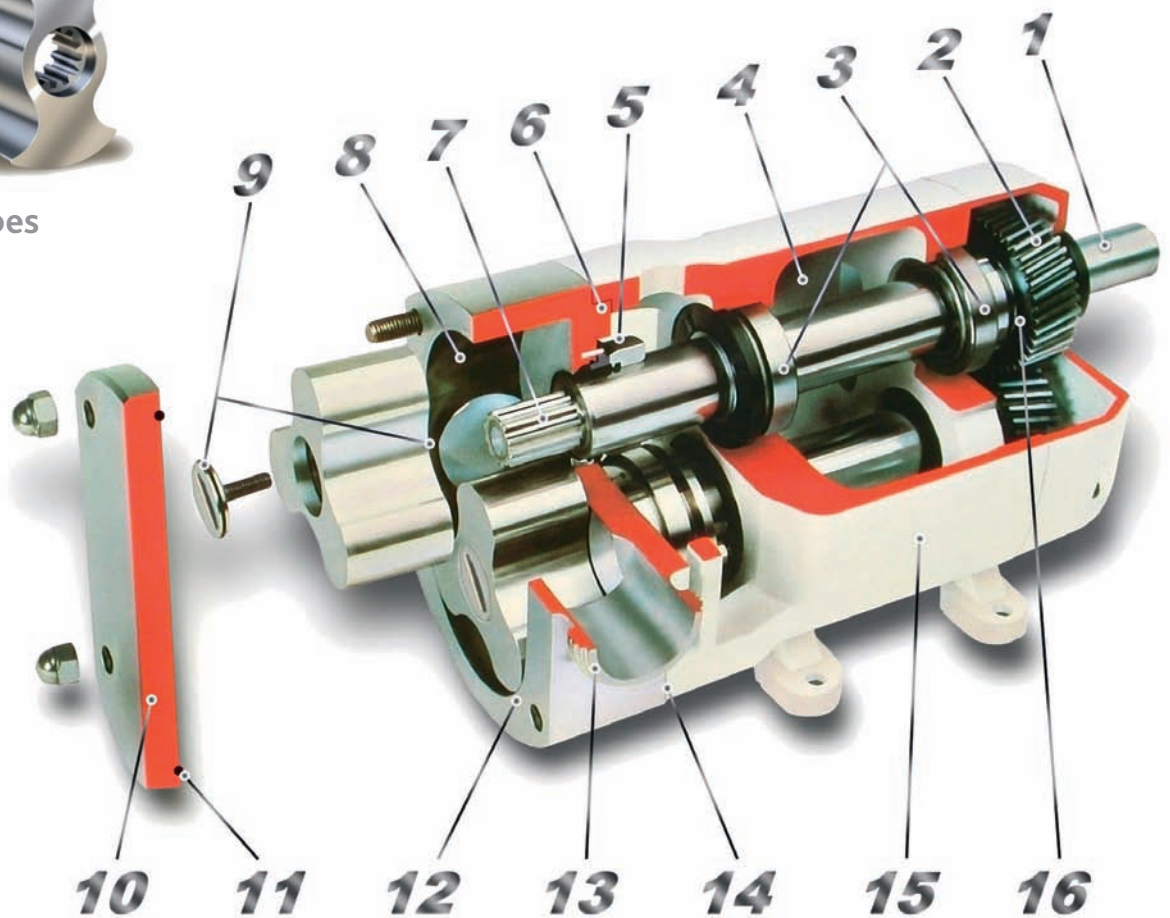
With various combinations of pump heads, rotor configurations and seals, a wide range of media can be handled without product degradation.

Capacity





B-lobes S-lobes



1. Shafts are made of heavy-duty, large-sectioned duplex stainless steel for less deflection and enhanced rigidity.
2. Helical gears time the main and lay shafts to maintain accurate clearances between the rotors. These clearances ensure high volumetric efficiency and increased suction.
3. Main bearings are of the standard taper roller type.
4. Gearboxes are grease or oil lubricated.
5. Shaft sealing can be achieved by mechanical seal, packed gland or O-ring, to suit application.
6. The spigotted rotor case is positively located on the bearing housing, eliminating loose dowels.
7. The 12-involute spline configuration ensures accurate positioning of rotors during assembly.
8. The pumping chamber is fully swept, ensuring no product entrapment.
9. O-ring seals on rotor keep splines free of product contamination.
10. The front cover can be supplied with a pressure relief valve built in to protect against overload.
11. O-ring seal profiled to the edge of pumping chamber. Most covers are flush, minimizing areas where bacterial growth can occur.
12. All wetted parts are made from 316 stainless steel.
13. Full diameter porting supplied as standard, fittings available to suit customer specification. Enlarged inlets for hopper feed also available.
14. Shimming external to gearbox to allow for quick and simple adjustments of rotor clearances when required.
15. The gear housing is manufactured from robust cast iron.
16. Keyed gears produce a positive drive to ensure that timing does not have to be reset when rotors are changed.

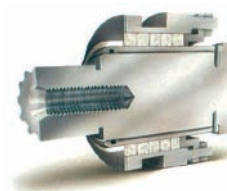
SHAFT SEALING

In consultation with a world-renowned seal manufacturer, a mechanical seal has been developed for the BOA-ROTORFLO. The seal is fitted as standard to optimise cleanliness. Wide clearances on the seal particularly suit cleaning-in-place, allowing for flushing fluids to sweep the entire seal area and eliminate product and bacteria build-up. Standard seals have stainless steel and carbon faces. If required, these seals can also be supplied in tungsten carbide or silicone carbide.

Alternative gland sealing arrangements: single or double mechanical seals (with or without flushing), O-ring seals, lip seals and packed glands are available.



Mechanical seal



Packing

MOUNTING

The pump can be top or bottom shaft driven, without having to dismantle the shaft assemblies. Size 2 & 3 pumps are inverted and the mounting feet repositioned in pre-drilled holes on the opposite side.

In addition of the front simple standard housing covers, the BOA-ROTORFLO can also be equipped with options like the hygienic appropriate pressure-relief-valves or heating cartridges.



Pressure-relief-valve

PERFORMANCE GUIDE

MODEL	PORT SIZE		SWEPT VOLUME*	MAXIMUM PRESSURE		MAXIMUM SPEED
	STD	OPT		BAR	PSI	
LP.R21	25mm		0,090	12	175	1000
LP.R22	40mm	25mm	0,130	10	150	1000
LP.R23	40mm		0,180	7	100	1000
LP.R31	40mm		0,300	15	220	1000
LP.R32	50mm		0,400	10	150	1000
LP.R33	65mm	80mm	0,580	7	100	1000
LP.R41	65mm	80mm	0,760	15	220	1000
LP.R42	80mm		1,140	10	150	1000
LP.R43	100mm		1,600	6	88	1000

*Higher values can be achieved as a result of operating conditions.