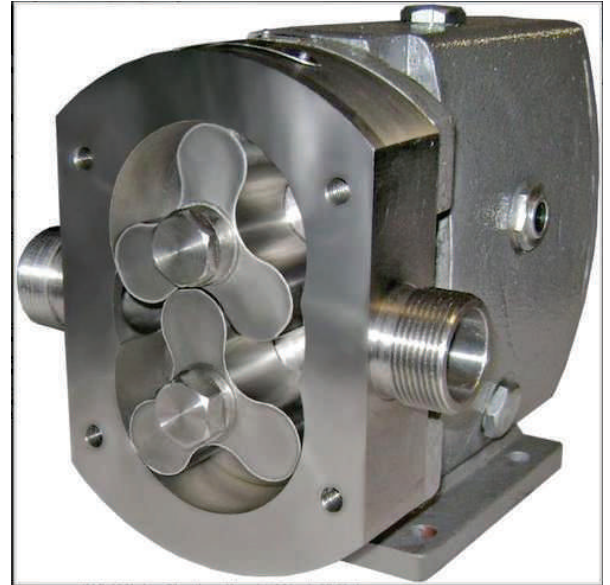




FABTECH INNOVATIONS

- Fabtech Lobe pumps are used in a variety of industries including pulp and paper, chemical, food, beverage, pharmaceutical, and biotechnology. They are popular in these diverse industries because they offer superb sanitary qualities, high efficiency, reliability, corrosion resistance, and good clean-in-place and sterilize-in-place (CIP/SIP) characteristics.

These pumps offer a variety of lobe options including single, bi-wing, tri-lobe (shown), and multi-lobe. Rotary lobe pumps are non-contacting and have large pumping chambers, allowing them to handle solids such as cherries or olives without damage. They are also used to handle slurries, pastes, and a wide variety of other liquids. If wetted, they offer self-priming performance. A gentle pumping action minimizes product degradation. They also offer reversible flows and can operate dry for long periods of time. Flow is relatively independent of changes in process pressure, so output is constant and continuous.



How Lobe Pumps Work

Lobe pumps are similar to external gear pumps in operation in that fluid flows around the interior of the casing. Unlike external gear pumps, however, the lobes do not make contact. Lobe contact is prevented by external timing gears located in the gearbox. Pump shaft support bearings are located in the gearbox, and since the bearings are out of the pumped liquid, pressure is limited by bearing location and shaft deflection.

1. As the lobes come out of mesh, they create expanding volume on the inlet side of the pump. Liquid flows into the cavity and is trapped by the lobes as they rotate.
2. Liquid travels around the interior of the casing in the pockets between the lobes and the casing it does not pass between the lobes.
3. Finally, the meshing of the lobes forces liquid through the outlet port under pressure.

Lobe pumps are frequently used in food applications because they handle solids without damaging the product. Particle size pumped can be much larger in lobe pumps than in other Positive Displacement Pump types. Since the lobes do not make contact, and clearances are not as close as in other Positive Displacement Pump, this design handles low viscosity liquids with diminished performance. Loading characteristics are not as good as other designs, and suction ability is low. High-viscosity liquids require reduced speeds to achieve satisfactory performance. Reductions of 25% of rated speed and lower are common with high-viscosity liquids.

Advantages

- Pass medium solids
- No metal-to-metal contact
- Superior CIP/SIP capabilities
- Long term dry run (with lubrication to seals)
- Non-pulsating discharge

Disadvantages

- Requires timing gears
- Requires two seals
- Reduced lift with thin liquids





FABTECH INNOVATIONS

SPECIFICATIONS

High Viscosity

These Pumps can handle materials With viscosities to 40,000,00 cps Including silicones, Adhesives , Pastes, Slurries, Suspended solids, Semi-solids, etc.

Shaft seals

Shaft Seals are Teflon impregnated graphite, Square braided packing. Pumps are also available with throttle bushings, lantern rings special packing or mechanical face-type seals Single, Double or cartridge design mechanical. Seals may be constructed of special materials If the application requires it.

Run Dry without Damage

Circumferential impellers rotate Within the fluid chamber without Contact between themselves or the Chamber walls. The slow positive Movement of the impellers, the lack Of contact between Rotating & Stationery elements & the rigidly Controlled tolerance permits the pump To operate efficiency where other Positive displacement pumps fail Can run dry without damage.

Externally Timed Gears

Timing gears used to synchronize the action of the pump impellers, are separated from the fluid chamber, thus eliminating a source of agitation & breakdown of the material being pumped as well as providing a clean source of great lubrication

High Temperature

Pumps can be furnished suitable for Use with Fluid temperature to 125 Degree celsius.

Slow speed for longer wear & longer shear

Slow speed operation of these pumps creates Slow internal velocities which result in increased Wear life, impart less shear to the product, & Enable the pump to handle high viscosity fluids.

For Transfer

Rattan Pumps can be used for Transfer.

Materials of Construction

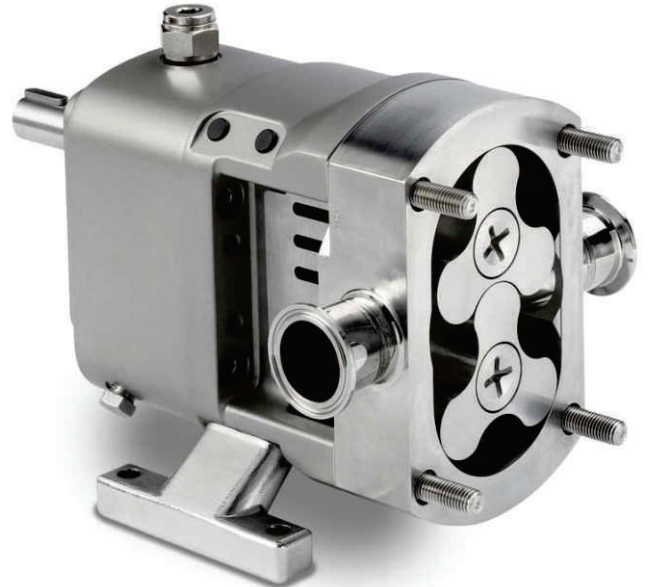
Process pumps are provided as standard in 316 Stainless steel. All parts are interchangeable & replaceable in the Fluid.

External Bearing Chamber

Material being pumped through the Fluid chamber is separated from Lubricated bearings or lubricant Chambers, eliminating contamination.

Wide range of drives & Mountings

Models 25 To 48 and 50 can be provided with a built-in 3 to 1 gear reduction for use with Motor speed drives. Pumps can be offered with a Selection of Standard motors, Gear motors, Variable speed drives, power take offs, air Motors, etc. Each Drive and pump combination is available mounted on a base plate suited t The specific application.



- 1) External timing gears in separate oil filled reservoir provide safe, synchronous gear action.
- 2) Constant diameter shafts (no steps in torque transmission areas) for maximum strength and Minimum deflection.
- 3) Housing, bushing, positioned under maximum radial load, assuring minimum shaft Deflection.
- 4) Packing and stuffing box is standard construction .Packing glands is split and constructed in 316 SS.Pumps can also be outfitted with mechanical seals.
- 5) Single lobe gears provide maximum strength and minimum shear contact in fluid chamber.
- 6) No metal to metal contact in the fluid chamber.
- 7) Housing & gear case are foot mounted to minimize distortion and vibration.
- 8) Casings and gear case are precision machined and dowel pin aligned. Procedure results in Full interchangeability should field replacement be required.
- 9) Faceplate (cover) accessible and easily removable for easy cleaning and inspection.
- 10) Wing nuts allow easy removal of gear for cleaning and inspection
- 11) Faceplate bushings provide simple bearing supports for the gears – no cantilevered shafts as in some competitive designs. Admn.



FABTECH
INNOVATIONS

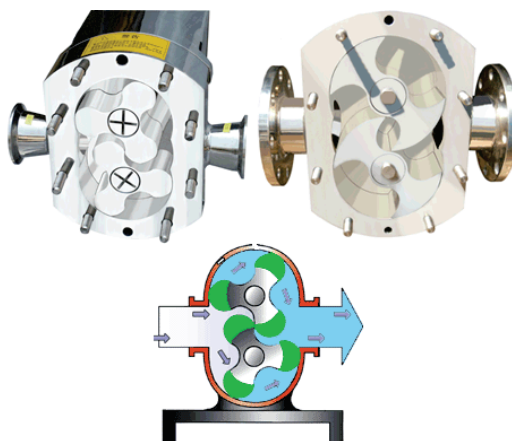
Examples Of Products Handled

Alcohol	Coffee	Glycerin	Mousse	Sorbitol
Apple purée	liquor	Gooseberries	Mussels	syrup
Apricots	Cordials	Gravy	Mustard	Soup
Baby food	Corn oil	Hand cream	Nail	Soya sauce
Batter	Corn syrup	Honey	polish	Spirits
Beans	Cottage	Horseradish	Nail	Starches
Beer	cheese	Ice cream	varnish	Stews
Beetroot	Cotton seed	Icings	Offal	Strawberries
Biscuit Cream	oil	Iodine	Olive oil	Sugar
Blackcurrants	Cranberry	ointment	Onions	Syrup
Brine	juice	Jams	Palm oil	Tapioca
Broth	Cream	Jelly	Pastes	Tea
Butter fat	Cream	Ketchup	Peanut	Tomato
Caramel	cheese	Lard	butter	ketchup
Castor Oil	Custard	Liquid sugar	Pectin	Tomato paste
Cat food	Dog food	Lotions	Perfumes	Tomato
Cheese curd	Dough	Malt	Piccalilli	purée
Cheese whey	Eggs	Maple syrup	Pie	Toothpaste
Cherries	whole	Margarine	fillings	Vaseline
Chicken paste	Egg yolk	Marmalade	Pizza	Vegetables
Chili con	Essences	Marshmallow	toppings	Vinegar
carne	Evapora ted	Marzipan	Plasma	Water
Chocolate	milk	Mascara	Po tato	Wines
Chutney	Fish	Mayonnaise	salad	Wort
Cockles	Flavorings	Milk	Preserves	Yeast
Coconut oil	Fondants	Mincemeat	Purées	Yogurt
Cod oil	Fruit juice	Molasses	Quinine	
	Fruit pulp		Rice	
	Fruit -		pudding	
	whole		Salad	
	Fruit		dressing	
	yogurt		Shrimps	
	Gelatin		Soap	
	Gherkins		Solvents	
	Glucose			



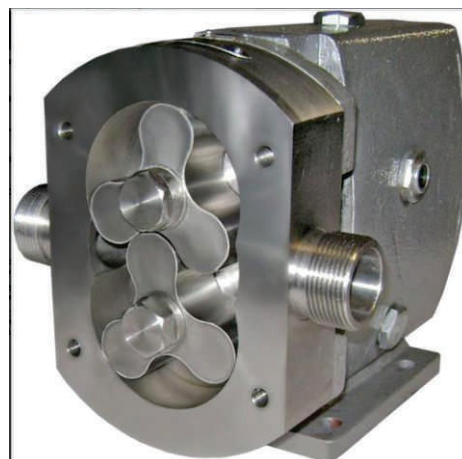
TWIN BUMP PUMP

MODEL	INLET OUTLET	LPM	R.P.M	PRESSURE
RSA TBP 25	25MM 25MM	70	960	2
RSA TBP 38	38MM 38MM	120	960	7
RSA TBP 45	45MM 45MM	250	1100	10
RSA TBP 50	50MM 50MM	310	900	12
RSA TBP 55	55MM 55MM	400	900	15
RSA TBP 65	65MM 65MM	600	900	15



TRI LOBE PUMP

MODEL	INLET OUTLET	LPM	R.P.M	PRESSURE KG/CM2
RSA TLP 25	25MM 25MM	70	960	2
RSA TLP 38	38MM 38MM	140	960	7
RSA TLP 45	45MM 45MM	220	960	8
RSA TLP 50	50MM 50MM	340	960	10
RSA TLP 55	55MM 55MM	450	960	12
RSA TLP 65	65MM 65MM	600	960	15

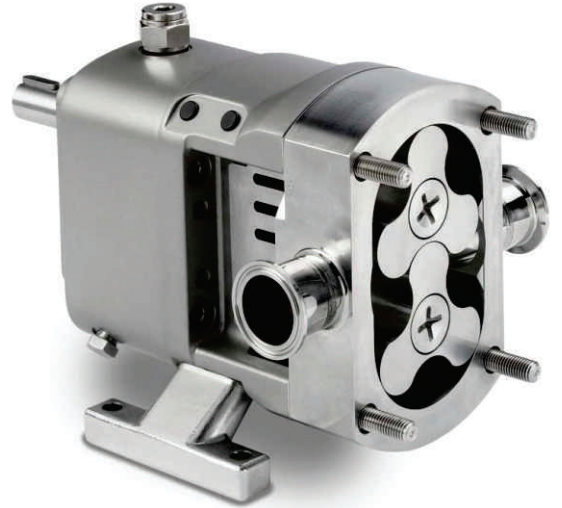




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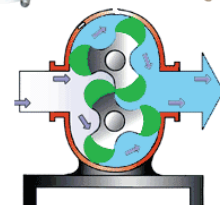
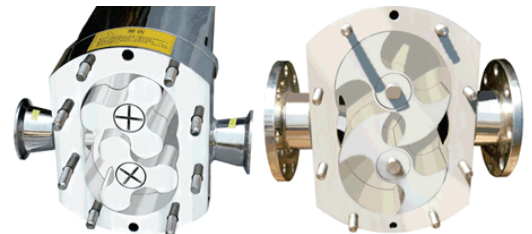
GEAR LOBE PUMP

MODEL	INLET OUTLET	LPM	R.P.M	PRESSURE KG/CM2
RSA GLP 25	25MM 25MM	90	960	7
RSA GLP 38	38MM 38MM	120	960	12
RSA GLP 45	45MM 45MM	220	960	15
RSA GLP 50	50MM 50MM	340	960	20
RSA GLP 55	55MM 55MM	450	960	22
RSA GLP 65	65MM 65MM	600	960	25



BUMP PUMP

MODEL	INLET OUT LET	LPM	R.P.M.	PRESSURE
RSA BP 25	25MM 25MM	70	750	2
RSA BP 38	38MM 38MM	120	750	7
RSA BP 45	45MM 45MM	160	550	10
RSA BP 50	50MM 50MM	160	450	12
RSA BP 55	55MM 55MM	200	450	15
RSA BP 65	65MM 65MM	300	450	15



Due to content research & development data is subject to change