

Proven Reliability

24 Series Positive Displacement Rotary Lobe Pumps



Design Features

- **Adaptability**

This is the key design concept. The pump utilizes 'bolt on' features which allow quick and easy interchange of parts to enable exact specification of the pump to suit any application.....from stock!

- **Rugged Design**

The bearing frame design utilizes large shaft diameters mounted in high spec taper roller bearings, fitted into rigid pillars which form an integral part of the high grade alloy housing. These ensure maximum shaft stiffness in order to avoid premature pump failure due to overpressure or other abuse.

- **Low Maintenance**

The shaft, bearing and gear assemblies are fully immersed in an oil bath to give maximum life even at extremes of operating conditions. The timing gears are easily accessible at the rear of the pump in the unlikely event that re-timing should become necessary. Rotors are all fully interchangeable avoiding the need to re-time which is a problem associated with so many other rotary lobe and circumferential piston pumps.

- **Improved Sanitary Technology**

Fully swept pump chamber together with sealed rotor spline, accessible seals, and approved sealing components ensure that the pump meets the stringent requirements of major international customers.

Options

- **Seals**

Single mechanical seals are of sanitary design. Materials include carbon, stainless steel, tungsten carbide and silicon carbide.

Low pressure flushed seals utilize the same single mechanical seal with an additional housing. A low pressure flush liquid washes away crystallizing products or liquids which 'skin over'.

Double mechanical seals utilize all the components from single seals. For hazardous, toxic, highly abrasive or sterile products.

Gland packing - a cost effective general purpose seal for non-hazardous liquids. Used on either a stainless steel or hard chrome plated anti-wear sleeve.

O-Ring seals - another low cost seal option used primarily for self lubricating products such as dairy products.

- **Rotors**

Tri-lobe rotors in stainless steel handle 90% of all applications. The traditional rotor shape gives an excellent

combination of efficiency, solids handling, low and high viscous product capability.

Bi-lobe rotor in stainless steel for exceptional handling of delicate, soft solids such as fruit pieces and vegetables.

Rubber covered tri-lobe rotor to cope with small hard solids such as small bone fragments or ice crystals.

- **Connections**

All US and European standards including Tri-Clamp, Bevel Seat and NPT. Most pumps available with 2 different sizes, all fully interchangeable.

- **Elastomers**

Nitrile, Viton, EPDM, Teflon or Kalrez product contact joints are available.

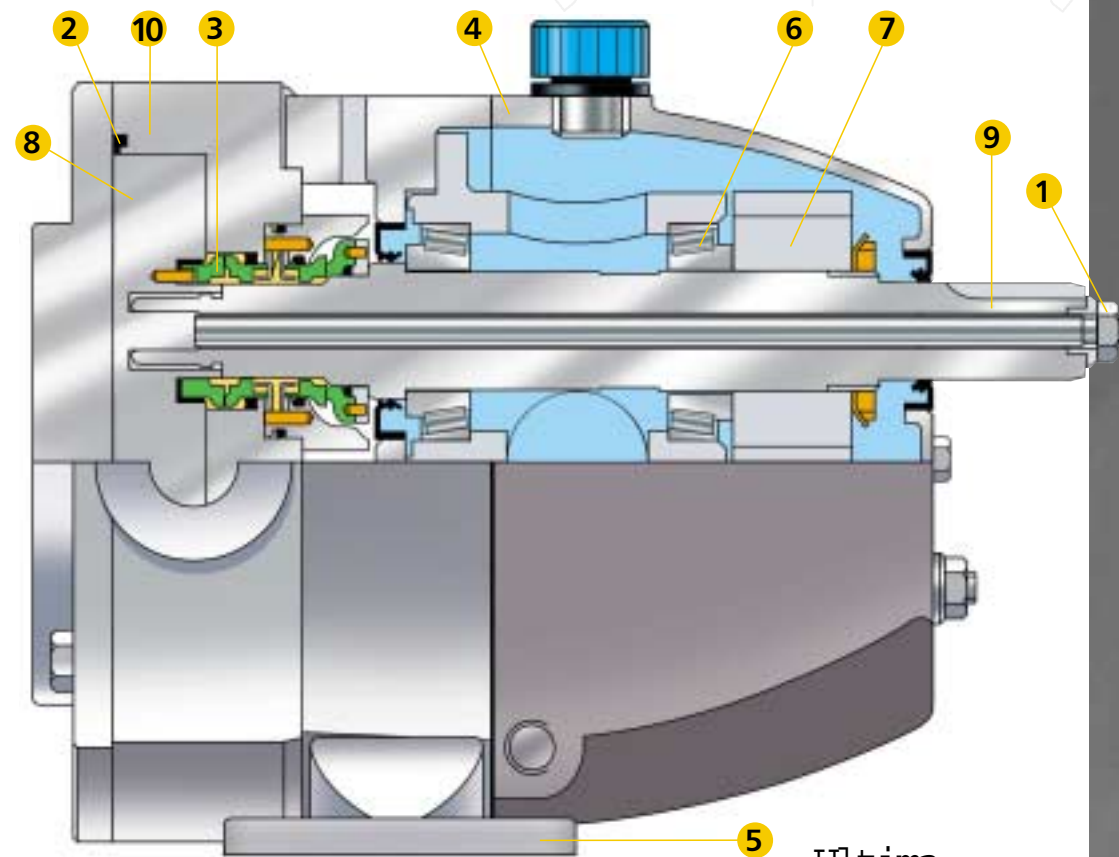
- **Other options**

Pump head temperature control jackets. Integral pressure relief valve. Integral speed reduction unit. Enlarged suction ports for highly viscous product.

	55 Series			Ultima					
Pump Model	55210	55320	55420	LU42	LU44	LU52	LU54	LU62	LU64
Port Size (inch)	1/2	3/4	1	1 or 1 1/2	1 1/2 or 2	1 1/2 or 2	2 or 3	2, 2 1/2 or 3	3 or 4
Displacement gall/100 rev	0.28	0.77	1.77	3.2	5.4	7	12	16.8	25
Maximum Flow US GPM	4.2	11.6	17.7	32	54	67	115	121	180
Maximum Pressure psi	200	300	300	215	115	215	115	215	115
Maximum Speed (RPM)	1500	1500	1000	1000	1000	960	960	720	720
Dimensions LxBxH inches	8x5x5	10x6x7	12x7x8	11x9x9	12x9x9	15x10x10	16x10x10	18x13x13	19x13x13
Weight (bareshaft) lbs	17	41	57	51	55	83	89	153	165
Temperature °F	-22 to 284								
Viscosity cP	1 to 1 million								

55 SERIES

Construction Details



Ultima

- 1 External rotor retainers prevent build up of stagnant product, by removing the need for end cover recesses and O-ring crevices entirely.
- 2 Gasket type joints eliminate the uncertainty of O-rings in terms of cleanability.
- 3 Front mounted shaft seals allow for easy replacement and full accessibility of CIP liquids.
- 4 Rugged, stainless steel bearing pedestal and housing allow for maximum hygiene (epoxy coated cast iron with stainless steel option on 55 series).
- 5 Removable feet allow quick change for pump mounting in the ideal orientation.
- 6 High specification taper roller bearings give over one million hours life on a typical duty.
- 7 Precision cut gears yield high load capability and ease of maintenance or replacement.
- 8 Fully interchangeable bi-wing rotors can be fitted without the need to re-time thus reducing downtime and allows pump to cope with a higher level of abuse and larger solids.
- 9 Heavy duty shafts for maximum rigidity and minimum galling due to low deflections.
- 10 Low carbon 316L pump head with welded ports for reduced carbide precipitation, increased corrosion resistance and minimal carbon 'pull-out'.

The 24 Series range of positive displacement rotary lobe pumps is a proven design spanning nearly 20 years. With thousands of pumps in use around the world users agree that it is one of the best designed hygienic pumps on the market today. The 316 stainless steel 24 Series pump range incorporates improved technology in sanitary pump design and manufacturing techniques, yet utilizes the traditional tri-lobe rotor concept which is so well accepted by the world's leading suppliers of Food, Personal Care and Chemical products.