

When Compromise is not an Option

Ultima/55 Series Ultra Sanitary Positive Displacement Rotary Pumps



Design Features

- **Ultimate Sanitary Standards**

Tested and approved to the EHEDG (European Hygienic Equipment Design Group), CIP, SIP and Bacterial Tightness protocols. Full conformance to 3A Sanitary Standards 18-02 and 03-09 and utilizing materials which meet the requirements of the FDA title 21, section 177.2600.

- **Cleaner by Design**

External rotor retention together with gasket type joints in place of O-rings reduce the number of potential product entrapment areas. In addition to this, the shaft seals are pulled forward fully in the product zone, all of which adds up to the ultimate in cleanability.....every time!

- **Low Product Shearing**

The bi-wing and 5 lobe rotor designs ensure high volumetric efficiency on low viscosity products resulting in low shear rates and low product damage.

- **Rugged Design**

This pump design utilizes extremely large shaft diameters mounted in high spec taper roller bearings. These give maximum shaft stiffness to ensure no galling thus maintaining the pump's CIP and SIP capabilities.

Options

- **Seals**

Front loaded single mechanical face type seals of sanitary design. Materials include carbon 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 utilizing all the components from single seals. Used for hazardous, toxic, highly abrasive or sterile products.

- **Connections**

US and European standards including Tri-Clamp and Bevel Seat. All pumps available with 2 different sizes.

- **Elastomers**

EPDM, Viton and Teflon product contact joints all in compounds conforming to the FDA CFR title 21 section 177.2600.

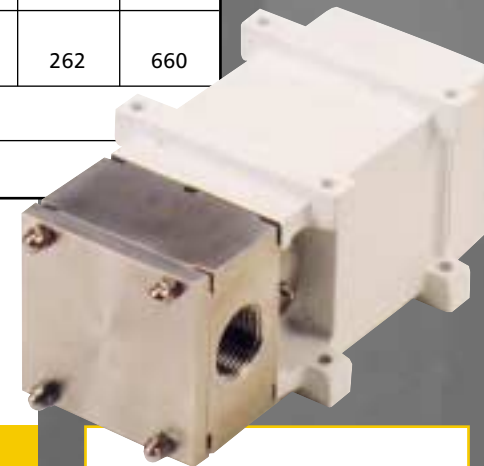
- **Other options**

Aseptic barrier end cover joints to maintain sterility of product during long cycle times.

Electropolish or high polish internal surfaces to 0.5µm Ra (240grit) for minimized cell damage and maximized cleanability.

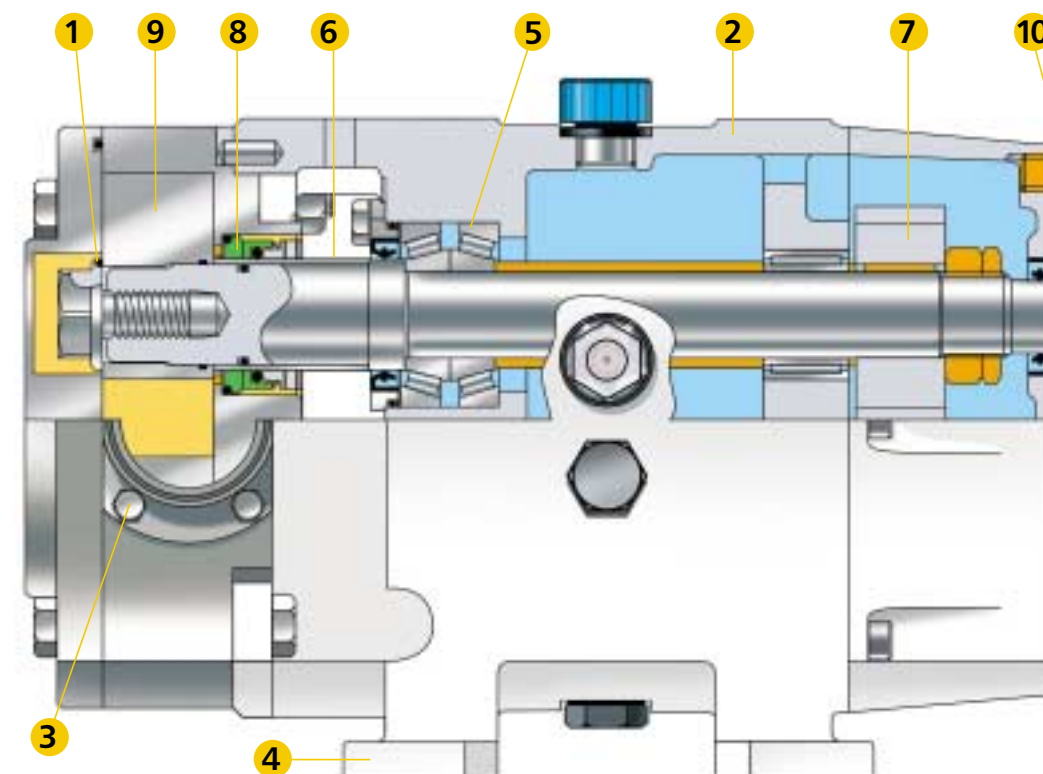
The ultimate sanitary rotary positive displacement pump designed without compromise to fulfill even the most critical customer demands in cleanability, sterilizeability and bacterial tightness. This 316L stainless steel design uses bi-wing or 5-lobe rotor designs specifically utilized to achieve the very lowest shear rate and product degradation characteristics. The Ultima pump is an extension of Jabsco's world renowned 55 series pump which was the first pump of its kind and a virtual industry standard in the Bio-pharm arena.

	24 Series									
Pump Model	S2	A1	A2	B1	B2	C1	C2	D1	D2	E2
Port Size (inch)	1	1 or 1½	1 or 1½	1½ or 2	1½ or 2	2 or 3	2 or 3	3 or 4	3 or 4	6
Displacement gal/100 rev	0.94	2.8	4.9	6.5	9.9	16.5	24.7	32.2	42.5	92.4
Maximum Flow US GPM	9.4	26	47	63	96	129	173	209	264	554
Maximum Pressure psi	100	217	150	217	150	200	150	175	130	175
Maximum Speed (RPM)	1000	960	960	960	960	720	700	650	620	600
Dimensions LxBxH inches	10x6x4	14x8x8	15x8x8	17x9x9	18x9x9	21x11x13	22x12x13	25x13x14	26x14x14	31x17x17
Weight (bareshaft) lbs	20	30	40	63	73	153	166	247	262	660
Temperature °F	-22 to +302		-40 to +392							
Viscosity cP	1 to 1 million									



Model S2

Construction Details



24 Series

- 1 Sealed rotor splines ensure improved cleanability.
- 2 Rugged, high grade alloy bearing frame for low weight and high strength.
- 3 Detachable ports for maximum flexibility in connection type and size.
- 4 Removable feet allow quick change for pump mounting in the ideal orientation.
- 5 High specification tapered roller bearings give over one million hours life on a typical duty.
- 6 Shaft sleeves under seals ensure minimized maintenance costs.
- 7 Precision cut helical timing gears for reduced noise and ease of maintenance.
- 8 Wide variety of interchangeable seal types to suit many applications.
- 9 Fully interchangeable rotor options can be fitted without the need of re-timing thus reducing downtime.
- 10 Heavy duty shafts for high pressure capability and minimum deflection.