

Jabsco 24 Series rotary lobe pumps for the food, dairy, beverage, pharmaceutical and general chemical industries.

Capabilities Include:

- **Positive displacement with gentle pumping action**
- **Proven reliability**
- **Hygienic design in 316 stainless steel**
- **Non-contacting rotors**
- **Approved by U.S. 3A Council and U.S. Department of Agriculture**
- **Modular design with interchangeable options**
- **Easily maintained**

24 Series Rotary Lobe Pumps

24 Series rotary pumps are widely used in the food, dairy, beverage, pharmaceutical and general chemical industries wherever viscous, delicate and particle laden fluids need to be pumped.

Being hygienic, easy to maintain and available in a wide range of sizes and options, Jabsco 24 series pumps easily meet the needs of modern industry.

Principal Benefits

- **Gentle Pumping Action:** For delicate, particulate and viscous fluids.
- **Positive Displacement:** To handle viscous fluids and high pressures.
- **Non-Contacting Rotors:** Ideally suited for abrasive and crystallizing liquids.
- **Hygienic Design:** 316 stainless steel and easy clean features.
- **Approvals:** U.S. 3A Council and U.S. Department of Agriculture.
- **Sealed Rotor Drive:** Suits both directions of rotation.
- **Easily Maintained:** Fully interchangeable components between options, and modular construction makes it even easier to fit, thus reducing down time.
- **Worldwide Distribution:** Pumps and spares are available from the network of distributors.
- **Solids Handling Ability:** This inherent feature of the rotary lobe type pump is made especially effective by use of the large port diameters.
- **Metering and Dosing:** Medium to high viscosity products can be accurately metered simply by controlling the pump speed, avoiding the cost and complexity of separate flow metering systems.



Product Features

- 316 stainless-steel wet end components
- Smooth, easy-clean exterior
- Sealed rotor bolts and drive splines
- Heavy duty roller type bearings for long life and precise rotor location
- Bolt-on ports of generous size eliminate cavitation
- Bolt-on relief valve, to protect pump
- Motorized units, variable-speed drives and systems

Typical Applications

- Food Ingredients
- Confectionery and Bakery
- Meat Products
- Brewing and Soft Drinks
- Milk and Dairy Products
- Cosmetics and Drugs
- Chemicals, Plastics, etc.
- Transfer
- Process
- Filling
- Metering
- Filtration
- Circulation
- Tankers

Performance Guidelines

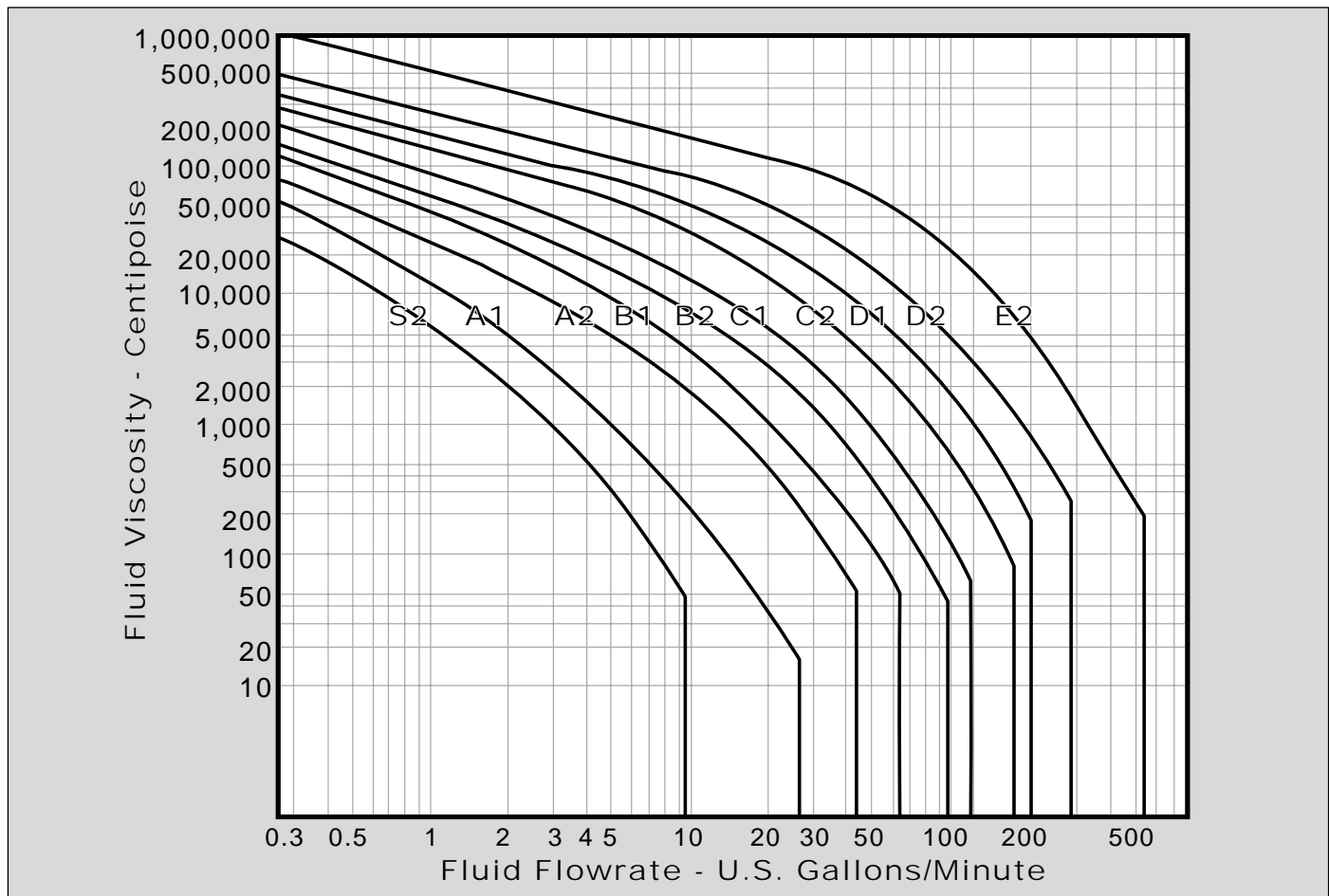
Pump Size		S2	A1	A2	B1	B2	C1	C2	D1	D2	E2
Basic pump no.		24950	24000	24050	24100	24150	24200	24250	24300	24350	24450
Flow, at max. speed	l/m	35	100	180	240	360	450	655	790	1000	2100
	US gpm	10	25	45	65	95	120	175	210	265	550
Pressure, max. differential (depending upon choice of rotors)	bar	7	15	10	15	10	14	10	12	9	12
	psi	100	220	150	220	150	200	150	175	130	175
Port size, standard	mm	25	25	38	38	50	50	76	76	100	150
	inches	1	1	1-1/2	1-1/2	2	2	3	3	4	6
Port size, enlarged	mm	—	38	50	50	76	76	100	100	—	—
	inches	—	1-1/2	2	2	3	3	4	4	—	—
Displacement per 100 revs	liters	3.6	10.4	18.6	24.5	37.7	62.3	93.6	122	161	350
	US gal	0.95	2.75	4.90	6.45	9.95	16.4	24.7	32.2	42.5	92.4
Max. soft particle size	mm	5	10	10	13	13	18	18	20	20	27
	inches	0.2	0.4	0.4	0.5	0.5	0.7	0.7	0.8	0.8	1.1



Hygienic Lobe Pumps

24 Series Rotary Lobe Pumps

Pump Size		S2	A1	A2	B1	B2	C1	C2	D1	D2	E2
Flow, Maximum	U.S. Gallons/minute	9.4	25	47	62	96	119	173	209	263	555
Pressure, Differential	Maximum p.s.i.	102	218	145	218	145	203	145	174	130	174
Displacement	U.S. Gallons/revs	0.0094	0.028	0.049	0.065	0.10	0.17	0.25	0.32	0.43	0.92
Speed, maximum	rpm	1000	960	960	960	960	720	700	650	620	600
Soft Particles	Max size inches	0.2	0.4	0.4	0.5	0.5	0.7	0.7	0.8	0.8	1.1
Port Size - standard	Inches	1	1	1-1/2	1-1/2	2	2	3	3	4	6
Port Size - Enlarged	Inches	—	1-1/2	2	2	3	3	4	4	—	—
Seal	Single Mechanical	•	•	•	•	•	•	•	•	•	•
	Flushed Mechanical		•	•	•	•	•	•	•	•	•
Option	Double Mechanical			•	•	•	•	•	•	•	•
Availability	Packed Gland	•	•	•	•	•	•	•	•	•	•
	Single O Ring		•	•	•	•	•	•	•	•	•
Rotor	3-lobe rotors	•	•	•	•	•	•	•	•	•	•
Option	2-lobe rotors		•	•	•	•	•	•	•	•	
Availability	Rubber Rotors		•	•	•	•				•	
Other	Relief Valve		•	•	•	•	•	•	•	•	
Option	Heating Jackets		•	•	•	•	•	•	•	•	
Availability	Rectangular Inlet		•	•	•	•	•	•	•	•	•
	Integral Reduction Gearbox		•	•	•	•	•	•	•	•	
Basic Pump Model Number		24950	24000	24050	24100	24150	24200	24250	24300	24350	24450
Weight (Pump Only)	Without Relief Valve	21	30	40	63	73	153	166	247	262	660
	(lb) With Relief Valve	—	36	46	70	80	171	184	269	284	—



This graph is an approximate selection guide based on fluid at atmospheric pressure fed to pump inlet through 1-1/2 feet of pipe. Full details of fluid flow, viscosity characteristics, vapor pressure and pipework are required to enable accurate pump selections to be made.