

## POSITIVE DISPLACEMENT ROTARY BALL PUMPS

### SPECIFICATIONS

MODEL	SIZE IN	CAP. GPM	MAX. RPM	WEIGHT LBS.
RB1415	1 1/2"	60	500	63
RB1420	2"	90	750	65
RB1421	2"	120	600	87
RB1425	2 1/2"	150	750	97
RB1430	3" Flange	300	600	198

### EXTENSIVE VISCOSITY RANGE - 30 TO 1,000,000 SSU

RB 1400 Series Rotary Ball Pumps have unique, large cavity rotors which are ideal for high viscosity fluids. Low rotor speeds allow easy fluid entry and low shear operation. The non-meshing rotor means that fluids with large particles can be pumped without damage to the fluid or the pump.

### LOW DOWNTIME, MAINTENANCE COSTS

The performance of a positive displacement pump depends upon maintaining the tolerances of the pumping mechanism. Operating speed attacks these tolerances. The floating RB 1400 Series rotor minimizes metal to metal contact in the pump. The large rotor cavities allow the RB 1400 Series pump to operate at lower rpms. These features combine to preserve the pump's original tolerances. Thus, the RB 1400 Series pump will run slower and longer and require less ongoing maintenance

### LESS COST, MORE PERFORMANCE

The RB 1400 Series has four large pumping chambers. These individual chambers are positioned so that incoming fluids flow directly to the heart of the rotor. Since fluids enter and exit the rotor cavities with less friction and less shear, the RB 1400 Series pump displaces more product with greater efficiency than other designs. Gallon for gallon, RB 1400 Series pumps will normally deliver more product at the same speed and require less horsepower than other positive displacement pumps.



### FEATURES

- Optional pressure relief valve
- Cast iron and bronze construction
- Outboard ball bearing supports main shaft
- 25 inch Hg Suction Capacity
- Low maintenance with floating rotor
- Flow range: 5 to 300 U.S. GPM
- Pressure Range: 200 PSIG
- Multiple Ports: 2 or 4
- Hydraulic motor mount optional
- PTO Sizes: 1 inch through 3 inch
- Packing: Graphite or Teflon
- Mechanical Seal: Buna N or Viton

### APPLICATIONS

- Diesel fuel
- Adhesives, glues, resins, latex
- Paint, ink, varnish, coatings
- Pastes, putty, caulking compounds
- Fats, tallow, meat by-products
- Soaps, detergents
- Sugar syrups, molasses
- Grease, heavy oil
- Asphalt, tar, pitch
- Petroleum products



# POSITIVE DISPLACEMENT ROTARY BALL PUMPS

## RB1400 SERIES

		1	2		3				4		5			6		7
			Relief Valve		Packing		Mechanical Seal		Number of Ports		Sleeve Bearings			Rotor Option		Hydraulic Motor
Flow GPM @200 SSU	Port Size	OP Part Number	Without Relief	With Relief	Packing Graphite	Teflon	Buna	Viton	2 Port Standard	4 Port Option	Bronze	Cast Iron	Ryton	Bronze	Cast Iron	Adapter
60 GPM @ 500 RPM	1 1/2"	RB1415-	N	R	G	T	B	V	2	4	B	C	R	B	C	H
90 GPM @ 750 RPM	2	RB1420-	N	R	G	T	B	V	2	4	B	C	R	B	C	H
120 GPM @ 600 RPM	2	RB1421-	N	R	G	T	B	V	2	4	B	C	R	B	C	H
150 GPM @ 750 RPM	2 1/2	RB1425-	N	R	G	T	B	V	2	4	B	C	R	B	C	H
300GPM @ 600 RPM	3	RB1430-	N	R	G	T	B	V	2	4	B	C	R	B	C	H

## RB SERIES SIGNIFICANT NUMBERING SYSTEM

Relief Valve	Packing		Mechanical Seal	Number of Ports	Bearing Material	Rotor Material	Hydraulic Motor Adapter
With = R Without = N	Graphite = G Teflon = T		Buna N = B Viton = V	2 or 4	Bronze = B Cast Iron = C Ryton = R	Bronze = B Cast Iron = C	H

### Standard Material of Construction

- Body: Cast Iron
- Relief Valve: Bronze
- Rotor and Sleeve Bearings: Bronze
- Graphite Packing or Buna N Mechanical Seal

1	2	3	4	5	6		7	8	9
			Standard Construction	Adder	Adder	Adder Viton	Adder	Adder Cast Iron	Adder Hydraulic
Flow GPM @ 200 SSU	Port Size	Pump Size	Graphite Packing or Buna N Mechanical	With Relief Valve	Teflon Packing	Michanical Type 21	4 Port	Bearings, Rotor & Relief Value	Motor Adapter
60 GPM @ 500 RPM	1 1/2"	RB1415-	\$1524	\$178	\$62	\$125	\$82	\$379	\$146
90 GPM @ 750 RPM	2"	RB1420-	\$1560	\$185	\$62	\$125	\$82	\$379	\$146
120 GPM @ 600 RPM	2"	RB1421-	\$2145	\$160	\$82	\$234	\$90	\$479	\$218
150 GPM @ 750 RPM	2 1/2"	RB1425-	\$2228	\$115	\$82	\$234	Standard	\$479	\$218
300 GPM @ 600 RPM	3"	RB1430-	\$3811	\$316	\$100	\$347	\$125	\$541	\$235