



# "BIG BERTY" BERTOLINI TRIPLEX PUMPS

Model Numbers: **RAL Series**  
**RAS Series**  
**RAL-H / RAS-H Series**



Model shown: RAL Series

RAS Series

RAS-H/ RAS-H S Series

## Product Description:

Heavy duty slow speed triplex pumps, flows to 50 lpm and pressures to 5800 psi (400 bar). The superior construction, the outstanding material quality, the innovative technology solutions Bertolini provide efficient, long life components and easy maintenance.

## Features :

- Two sight glasses
- O-Ring groove in cover crankcase
- Double cylindrical roller bearing
- Forged crankshaft
- Circlips of piston pins/connecting rods
- Plunger rod in stainless steel, tenifer treatment
- Two oil seals
- Innovative oil seal adapter
- Innovative new valve cap design unscrewing/tear resistant
- White ceramic plungers
- Innovative suction manifold
- Sealed room between crankcase/head (patented)
- Efficient volumetric check valves
- New bolt design to lock the ceramic piston
- Bronze connecting rods with extra length of heads rods

## Drive System:

- 4 pole electric motors 5.5 hp (4 kW) to 15 hp (11kW)
- Petrol engine gear box or belt drive
- Diesel engine gear box or belt drive
- Hydraulic drive

## Applications:

- Industrial applications
- In-plant stationary systems
- Trailer mounted cleaning systems
- Drain cleaners
- Multiple gun washing stations,
- High flow pressure washers

## Benefits:

- Easier to monitor oil level
- Increases sealing and strength of rear cover
- Increases life of pump
- Increases load resistance
- To work tightly and constantly on the right tolerances of the pins and conrods
- Superior strength surface. Increases resistance and reduces wearing
- To avoid water leaking into the oil
- Improves seal
- Deeper o-ring prevents o-ring extrusion, water mixing with oil and increases endurance
- 99.5% alumina ceramic in three different sizes
- Improves cooling & increases area of recycling the seals leakages. Back/low pressure seals always wet for longer life in "quiet" operation
- Allows perfect suction feed of high/low pressure seals in constant wet conditions. Increases resistance even to dry conditions
- Completely in stainless steel, cage included (option). Superior strength in any condition
- Prevents piston from unscrewing
- Better alignment

Specifications	RAL/RAS/RAL-H/RAS-H
Diameter	G. 1"
Pressure - Min	-0.1bar -1.5 psi
Pressure - Max	6 bar 87 psi
Temperature	74° C. 165° F
Diameter - Out	G. 3/8
Shaft	30mm
Oil - SAE30 30w	1.5 litre 0.4 USG



# "BIG BERTY" BERTOLINI TRIPLEX PUMPS

Model Numbers: RAL Series

## Product Description:

### Bertolini RAL Series

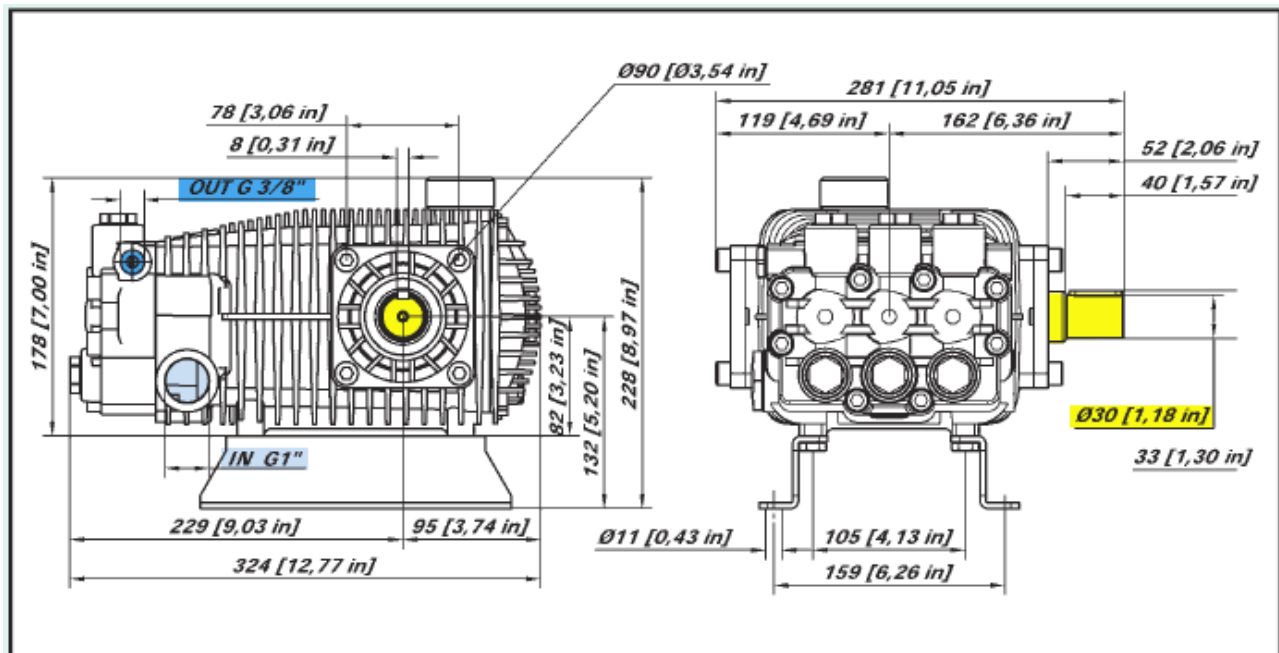
Slow speed, high performance triplex pumps, designed for extended life operating at high pressures.

Maximum Flows	30 lpm
Maximum Pressure	4300 psi (300 bar)
Max Speed	1450 rpm
Shaft size	30 mm



*Piston Pumps RAL Series*

Pump Model	Volume (l/min)	Pressure		RPM	Required HP		Weight (kg)
		bar	psi		kW	HP	
RAL2330	23	300	4300	1450	13.3	17.8	18.5
RAL2530	25	300	4300	1450	14.3	19.2	18.5
RAL2730	27	300	4300	1450	15.4	20.6	18.5
RAL2825	28	250	3600	1450	13.3	17.8	18.5
RAL3025	30	250	3600	1450	14.4	19.3	18.5







# "BIG BERTY" BERTOLINI TRIPLEX PUMPS

Model Numbers: RAL-H / RAS-H Series

## Product Description:

### Bertolini RAL-H / RAS-H Series

Slow speed, high performance triplex pumps, designed for extended life operating at high pressures.

Maximum Flows	25 lpm
Maximum Pressure	5800 psi (400 bar)
Max Speed	1725 rpm
Shaft size	30 mm

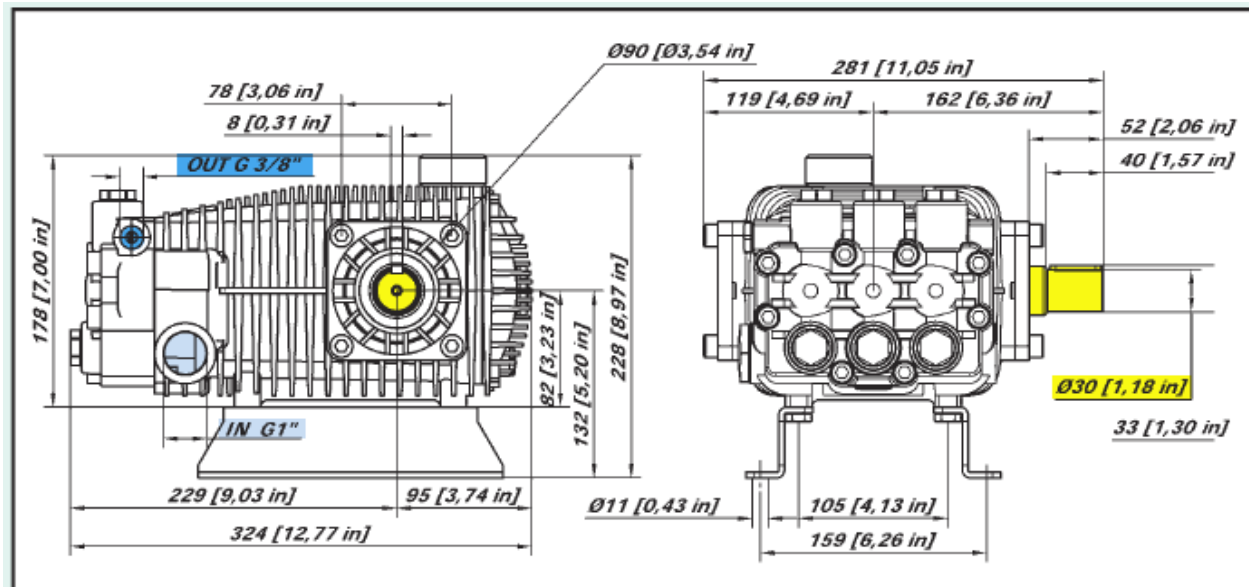


### Piston Pumps RAL-H Series

Pump Model	Volume (l/min)	Pressure		RPM	Required HP		Weight (kg)
		bar	psi		kW	HP	
RAL2335-H	23	350	5000	1450	15.4	20.6	18.5
RAL2535-H	25	350	5000	1450	16.7	22.4	18.5

### Piston Pumps RAS-H Series

Pump Model	Volume (l/min)	Pressure		RPM	Required HP		Weight (kg)
		bar	psi		kW	HP	
RAS5845-H	17	400	5800	1725	13	17.4	18.5
RAS5850-H	19	400	5800	1725	14.9	20	18.5
RAS5856-H	21.3	400	5800	1725	16.7	22.4	18.5
RAS5062-H	23.5	350	5000	1725	15.8	21.2	18.5



Due to our program of continuous product development the manufacturer reserves the right to alter specifications without notice.