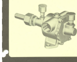
Jabsco Pumps

JABSCO PUMPS

Model 4900–200



DESIGN FEATURES

Body Bronze Construction
Impeller Jabsco Neoprene Compound
Shaft Stainless Steel Type EN57
Shaft Seal Packing Type
Ports ½" BSP
Weight 1.5kg (3½ lb)

Variations incorporated from unit described above

Model 4900–237: As Standard pump but fitted with Nitrile impeller. For use with a wide range of oils including soluble, lubricating, and machine cutting. Not recommended for Toluene, Petrol, Benzene, Kerosene, or other high fraction petroleum products.

Typical Applications

Industrial
circulating and transferring liquids
velocity mixing
pumping coolants on machine tools
pumping waste water to sewer
cellar, yards and sump drainage
chemical manufacturers and pharmaceutical houses – to pump: soap, liquors, ink, dies, medicines, alcohol, various acids, tanning liquors, glycerine, lotions, brine, etc.

Marine
pumping bilges
washdowns
circulating water in bait tanks
utility dock side pump
circulating engine raw water.

Farming
pumping water for stock, poultry houses, farmhouse
pumping water from wells and cisterns
pumping water from flooded basements
booster pumping
pumping liquid ballast into tractor tyres

Plumbing and home emergency use
pumping out flooded basements, cesspools, sumps, etc.
draining water heaters and water closets
draining laundry tubs below sewer level
when pipes break or leak
draining fishponds and garden pools
removing sludge, lye-water and other caustics from stopped-up drains and sinks.

ÇEMBERCİ
Kuruluş: 1906
BÜYÜKDERE - İSTANBUL

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PERFORMANCE CHART

	TOTAL HEAD WATER				500 RPM			750 RPM			1,000 RPM			1,500 RPM		
	Metres of Water	Feet of Water	kg per cm²	lb per sq.in.	HP	Litres per min	Imperial Gallons per min	HP	Litres per min	Imperial Gallons per min	HP	Litres per min	Imperial Gallons per min	HP	Litres per min	Imperial Gallons per min
	3.05	10	0.3	4.3	1/6	13	3	1/6	20	4.4	1/4	26	5.7	1/3	38	8.4
Standard	6.1	20	0.6	8.7	1/6	11	2.5	1/6	17	3.8	1/4	23	5.1	1/3	35	7.7
Fall	9.15	30	0.9	13.0	1/6	9	2	1/6	15	3.3	1/3	21	4.6	1/2	32	7.1
Care	15.25	50	1.5	21.5							1/3	15	3.3	1/2	25	5.6

Table shows approximate head-flow for new pump. For speeds above and below those shown and for pressures higher than indicated please consult factory for recommendations.

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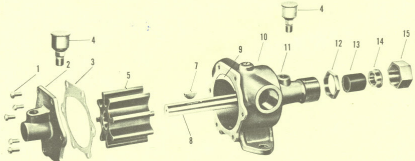
Exploded View and Parts List

EXPLODED VIEW



Insist on genuine Jabsco parts,
made only by the original and world's leading manufacturer of self-priming flexible neoprene impeller pumps.

PARTS LIST

Key	Description	Qty	Part No.
1	End Cover Strews	6	SP1003–09
2	End Cover	1	4905
3	Gasket	1	4908
4	Grease Cups	2	SP1503–01
5	Impeller	1	4568–0001
	Impeller model 4900–237	1	4568–0003
7	Key (Impeller to Shaft)	1	SP1401–09
8	Shaft	1	C–10–01
9	Cam	1	490
10	Cam Screw	1	SP1003–07
11	Pump Body	1	4904–200
12	Lock Nut	1	C–18
13	Packing	1	3791
14	Packing Gland	1	C–20
15	Packing Nut	1	C–16

SERVICE KIT

Pump model number	Service kit number
4900–200 4900–237	SK234 SK234–37

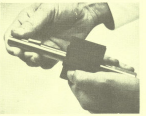
Service kit includes:
Impeller
Packing
Gasket
End Cover Screws
Key

DISASSEMBLY

1 Remove end cover screws and gasket.
2 Remove drive coupling or pulley and loosen off packing nut.
3 Remove shaft and impeller assembly from body (figure 1).
4 Remove impeller by sliding it off towards flatted end of shaft (figure 2).
5 Remove cam screw and cam. Remove old jointing compound by using a solvent, ie petrol.
6 Remove packing nut and gland.
7 Remove old packing with small screwdriver (figure 3).
8 Inspect all parts for wear or damage and replace if necessary.

1

2



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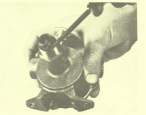


ASSEMBLY

1 Dip new packing in a light machine oil and install packing, packing gland and packing nut.
2 Coat cam screw threads and top of cam with a non-setting jointing compound and install in pump.
3 Replace key in shaft and slide impeller on the shaft from the flatted end.
4 Replace shaft and impeller assembly in body. *Note:* Lubricate impeller bore with a good quality water pump grease and shaft with machine oil prior to placing in body.
5 Replace gasket and end cover screws. Hand tighten packing nut during operation and tighten gradually until pump stops dripping. Set locking nut.

Model 4900–200

OPERATING INSTRUCTIONS

1 **Installation:** Pump may be mounted in any position. The rotation of the pump shaft determines the location of the pump's intake and discharge ports, refer to dimensional drawing. Before installing, turn the pump shaft in the direction of the operating rotation.

2 **DRIVE:** Belt or direct with flexible coupling.
Belt Drive: Overtight belt load will reduce pump bearing life. Direct drive recommended for operating speeds above 2100 rpm.
Direct Drive: Clearance should be left between drive shaft and pump shaft when installing coupling. Always mount and align pump and drive shaft before tightening the coupling set screw.

3 **Speeds:** Up to the maximum shown on the performance table. For longer pump life, opeate at lowest possible speeds.

4 **Model 4900–200** is self priming over a wide speed range with suction lift up to 3.5 m (10') and suction lift up to 4.5 m (15') when primed. Intake lines must be air-tight to ensure self priming.
Note: Pump will prime when impeller is DRY, but suction lift of up to 3.5 m (10') is only obtainable when impeller is *greased or lubricated* with liquid being pumped. All performance figures stated are for water at ambient temperature and at 1500 rpm.

5 **Running Dry:** Unit depends on liquid pumped for lubrication. *Do not run dry* for more than 30 seconds. Lack of liquid will burn the impeller.

6 **Caution:** Do not pump light fraction petroleum derivatives, solvents, thinners, highly concentrated or organic acids. If corrosive fluids are handled, pump life will be prolonged, *if flushed with water after each use or after each work day.*

7 **Pressures:** For continuous operation, pressure should not exceed 1.4 kg/cm² (20 psi) for the standard Model 4900–200.

8 **Temperatures:** Impeller supplied in pump is recommended for liquid temperatures of 7°–82°C (45°–180° F).

9 **Freezing Weather:** Drain unit by loosening end cover. Most methyl alcohol (methanol) based anti-freeze can be used. *Do not use petroleum based anti-freeze compounds or rust inhibitors.*

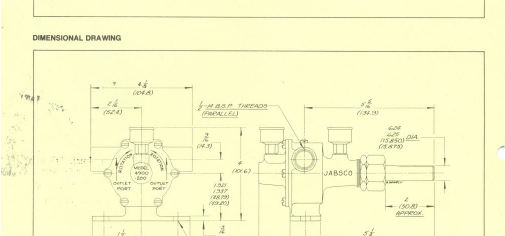
10 **Gasket:** Use standard pump part. Thicker gasket will reduce priming ability. A thinner gasket will cause impeller to bind.

11 **Packing:** Use standard pump part. Having packing nut too tight will increase the torque requirement and may burn packing or groove the shaft under the packing.

12 **Grease Cups:** Fill grease cups with water pump grease (Marfak 2HD or equivalent).

13 **Spare Parts:** A Jabsco Service Kit should be kept on hand to rebuild all but the most badly worn pumps.

DIMENSIONAL DRAWING



Dimensions in inches and millimetres

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