



Irrigation pump
DZP-005/S



Instructions for use

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1-APPLICATION

The irrigation pump is part of the GLOBAL accessories and operates with the drive unit HONDA GSV-190. It is intended for a wide range of applications. It can be especially useful for irrigating gardens, parks, etc. And it is also possible to connect it to an automatic sprayer. Thanks to its great pressure it is also usable for the washing of vehicles, car spraying, etc. It can be for pumping clean drinking water or a polluted water, without mechanical impurities.

2-TECHNICAL DESCRIPTION

The pump is of vertical, centrifugal, single-stage and spiral design. The shaft is carried in the body in two ball bearings protected by 2 packing rings. On the upper end, there is an external disc of a centrifugal coupling (The disc is keyed on). For easy movement the pump is mounted on a handbarrow undercarriage. For the initial filling-up of the pump and the suction hose with water the pump has a filler neck including a closing valve cone, and a vent cock. The pump is provided with a suction hose including a suction strainer and a delivery hose with an adjustable nozzle. Both hoses are connected to the pump by means of a pipe union and therefore they can be disconnected easily.

3-TECHNICAL DATA

Delivered water quantity	100 litres per min
Head	6 m
Suction head	5 m
Speed	3 600 r.p.m.
Weight including both hoses	38 kg
<i>Overall dimensions:</i>	
-length	710 mm
-width	459 mm
-height	456 mm
Suction hose-inside diameter/length	25 mm/5 m
Delivery hose-inside diameter/length	25 mm/5 m

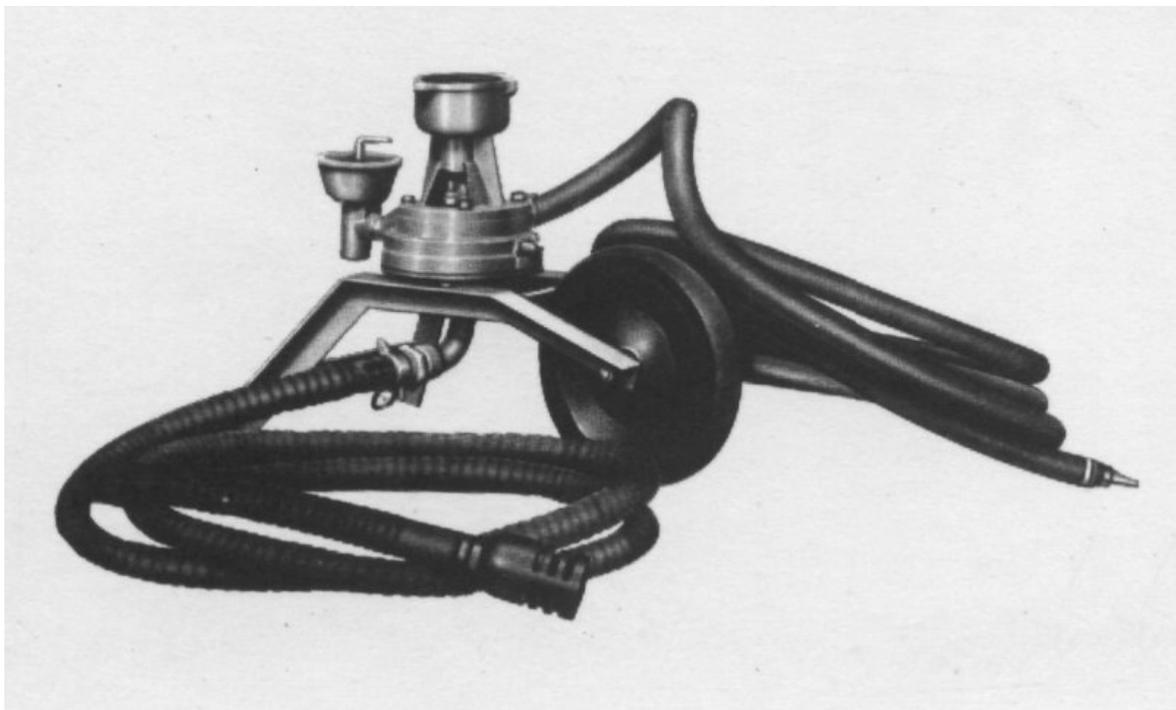
4-SAFETY INSTRUCTIONS

Any transfer and all repairs may be carried out only when the engine of the drive unit is stopped, and the hoses are disconnected. In spraying, take care that the water stream does not get in a close vicinity of electric lines because it might cause an injury by electric current. Remember that the operator or user is responsible for injuries or hazards caused to other people or their property.

5-OPERATING INSTRUCTIONS

Preparation of the pump start:

Immerse the suction hose in the water source so that the suction strainer may be at least partially in the vertical position because the valve cone must close the suction hole by its own weight. In order to ensure perfect venting, the suction hose must ascend continuously from the suction strainer up to the pump. Open the vent cock on the spiral body of the pump and, by means of the hook bolt open the funnel. Fill up fully with water the suction space including the space in the pump itself, that is until bubbles cease to escape out of the vent cock. Then close the vent clock and the funnel and proceed to the engine starting (starting of the drive unit) by giving more gas (accelerating) to start the pump. If all the joints at the suction side are tightened well and the valve cone of the suction strainer in order, the pump starts delivering the pumped liquid almost immediately. If not, carry out the filling with water care-fully again, and the start the pump. Unless the pump is transferred to another place, it is as a rule not necessary to carry out the filling-up of water even the operation is interrupted.



6-MAINTENANCE AND SERVICING

The pump requires almost no maintenance. The ball bearings contain sufficient grease and are protected by packing rings. They must be cleaned and re-lubricated only in case of a repair or dismantling, depending on a season utilization degree, once in 3-5 years. Tighten the packing gently only, it is incorrect when drops of the liquid being pumped penetrate through the packing. If the packing do not tighten any longer and cannot be retightened any more, the packing is worn-out and must be changed.

Change of the packing:

After unscrewing the nuts of the stuffing box, pull out the cover and remove the worn-out packing. Make packing rings from packing cord. Wind the cord on a diameter of 18 and cut it into rings with a sharp knife. The ring ends must be cut straight, not in oblique direction or unwound. Four rings are needed to fill the stuffing box. Insert the rings without using force into the stuffing box chamber and retighten the stuffing-box cover by means of the nuts so that the shaft can turn easily. In case the pump is used for pumping dirty liquids it is recommended to rinse both the pump and hoses with clean water (Let the pump in operation for several minutes, pumping clean water). If the pump is not to be used for a longer time, remove rests from the pump space and protect is so against damage due to frost. As the hoses are made of rubber, it is necessary to pay proper attention to their storage. It is recommended to store them in a cool, dark room with a temperature of +25 to -10 °C in an environment free from petrol vapours or other vapours harmful to rubber.