

BOSS PULISCI PROVA IMPIANTI MEDIA

Pump for power flushing operations and removal of impurities, suitable for hydraulic, solar, floor systems and for cooling circuits of medium size. Suitable for buildings, offices, etc

COD. 301301010



TECHNICAL FEATURES

ENGINE	230 VAC / 50 Hz / 0,75 kW
WEIGHT	37 Kg
ELECTRICAL PROTECTION	IP 44
IN/OUT CONNECTIONS	3/4" F
MAX. CAPACITY	90 l/min
OPERATING PRESSURE	4 bar
PREVALECE	40 m
FUEL TANK CAPACITY	18 litres
OPERATING TEMPERATURE	40°C
DIMENSIONS	H: 1070 mm - L: 520 mm - P: 550 mm

PACKAGING FEATURES

PIECES PER BOX	1
PIECES PER EPAL PALLETS	2
BOX DIMENSIONS	115x58x50
EPAL PALLET DIMENSIONS	130x80x120
WEIGHT	102 kg
CUSTOMS CODE	8413.82.00
BARCODE	8050616510075

* Data updated in May 2016

ADVANTAGES

- Easily transportable
- High performance
- Provided with an electrical panel and safety automatism
- Automatic tank filling

BENEFITS

- Elimina i fanghi dai circuiti di riscaldamento
- Riduce i consumi in bolletta

MAIN FEATURES

Twin impeller with high flow rate and hydraulic head, safety by-pass valve and appropriate adjustment to washing and loading of hydraulic installations. Complete of piping and fittings, pressure gauge, no-return valve, anti-over-flow solenoid valve, recirculation and 3-way drain valve. 20 litres tank with washable filter equipped with security float for anti-flooding and anti-emptying of the plant. Flow rate and hydraulic head fully adjustable. Complete with electrical panel, Start/Stop push button, safety and fuse holders.

APPLICATION AND USE

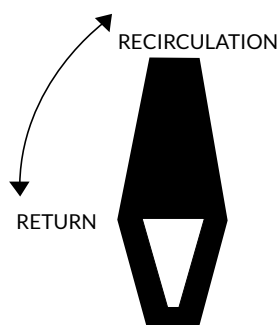
Suitable for sludge and impurities power flushing operations on medium sized plants as well as for the following washing. Suitable for the loading and washing of solar and/or thermal systems both conventional or underfloor. It is also suitable for cooling circuits.

WHAT DO I NEED TO INSTALL IT




- Flexible hoses for an easier connection
- Nipples
- Fittings
- Plumber's typical equipment for different types of connections.

CORRECT INSTALLATION

1. The pump allows to: clean and rinse the system, recirculate chemical products, unclog blockages or obstructions, degas the system, pressurize the system to control the sealing.
2. The relevant functional parts for use are: the pressure regulator, the 3-way drain side valve, the two flow and drain side ball valves, filling conduit and reinstatement of the tank.
3. **Preparation and connections**
Assemble the pipes by connecting them to the return manifolds of the system. Close both inlet and discharge valves. Fill the tank with clean water. Adjust the pressure to a minimum by unscrewing the regulator screw. *(Drawing or photo) Place the 3-way valve on the recirculation
4. **Start up**
Turn on the pump with the switch. Slowly open the flow side valve. Open about 1/2 the discharge side valve. Increase the pressure by screwing the regulator until the



desired pressure. Note: The pressure read on the pressure gauge and the pressure measured on the system might be different: There may be two different cases:
A- The pressure does not rise
B- The pressure is correct but there is no flow return
In the first case act closing the drain side valve slightly, eventually screw again the regulator screw. In the second case the system is clogged. Open the drain side valve completely and increase progressively the pressure by acting on the regulator screw, the pump can reach up to 10 bar.

1.  Pump connection
2.  Pipes connection detail (flow, return)
3.  General view of the pump properly installed (flow, return, loading and discharge)

5. First rinse with clean water.

Place the 3-way valve in drain mode and simultaneously adjust the tank feed flow to compensate the water leaving the plant. If necessary, close the drain valve if the restoration of the tank is insufficient to maintain a stable level. Proceed with rinsing until the drained water becomes clear. Note: Always avoid the tank draining in order not to introduce air inside the system.

6. Cleaning with restoring product

Place the 3-way valve on recirculation and insert the product into the tank. To ensure that all the system's components are properly restored it is recommended to close all the elements except for one. Once the element is restored you may close it and open another one. Once the selective flow is over, recirculate the product for 15-20 minutes with all the elements open.

7. Drain and final rinse.

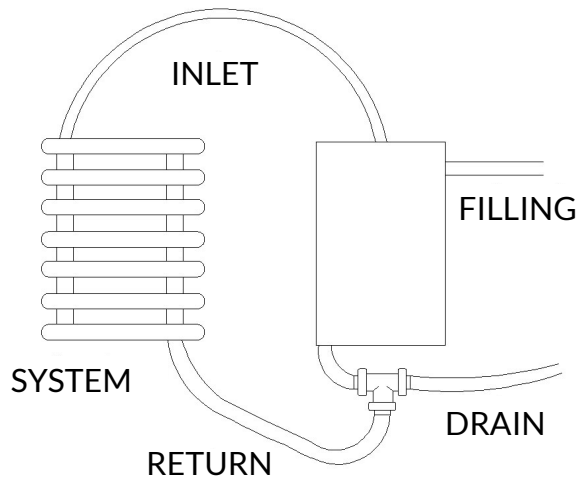
Once the cleaning is over, proceed as per step 5.

8. Placement of the conditioning product

Place the 3-way valve on recirculation and insert the product into the tank. Proceed with a 5-10 minutes recirculation

CAUTION:

In case of excessive foaming during use, turn off the pump for a short time and **eventually dilute the solution with water.**



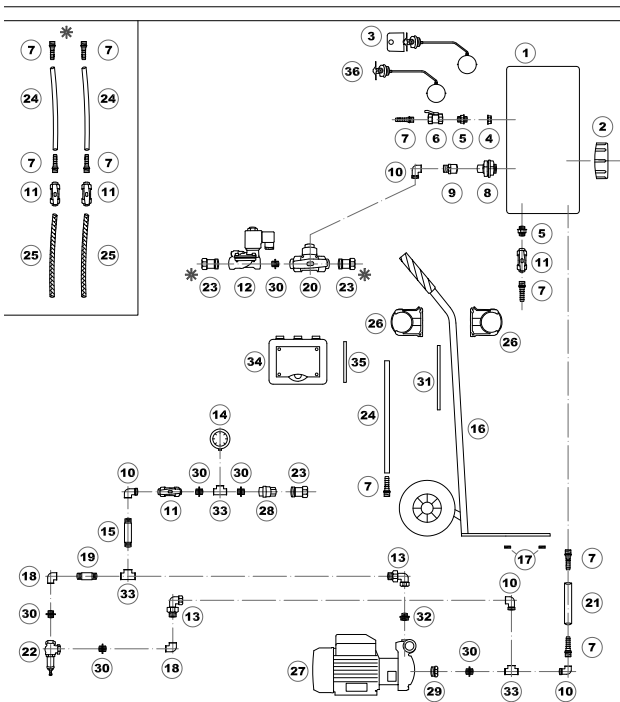
ADDITIONAL OPERATIONS FOR SYSTEM TESTING

To pressurize the system:

1. Close the ball valve on the distribution block.
2. Connect the PVC ball valve placed under the block to the system through the pipe.
3. Open the valve and turn on the pump.
After reaching the pressure of 7 bar, the pressure switch automatically shuts off the engine.
4. Check the pressure gauges.
5. Close the valve once the pressure is stabilized
6. Remove the equipment.

Important: at the entrance of the system a valve must be installed and upstream of it there **must be a pressure gauge in order to control any pressure losses.**

EXPLODED VIEW AND SPARE PARTS LIST



- | | |
|----------------------------|-----------------------------------|
| 1- TANK | 25- FLEXIBLE STAINLESS STEEL HOSE |
| 2- TANK'S CAP | 26- PIPE CARRIER RING |
| 3- SOLENOID VALVE FLOAT | 27- ELECTRIC PUMP |
| 4- SEAL | 28- NON-RETURN VALVE |
| 5- NIPPLE | 29- CONNECTION M/F |
| 6- FILLING TAP | 30- NIPPLE M/M BRASS |
| 7- HOSE-FITTING | 31- BIG PVC PLATE |
| 8- PASSWALL | 32- CONNECTION 1" - 3/4" |
| 9- GLUED CONNECTION | 33- "T" 3/4" |
| 10- ANGLE PIPE | 34- SWITCHING BOX |
| 11- TWO WAY VALVE | 35- SMALL PVC PLATE |
| 12- ELECTROVALVE N/C | 36- FILLIN FLOAT |
| 13- BRASS ANGLE PIPE M/F | |
| 14- PRESSURE GAUGE | |
| 15- LONG VALVE BODY | |
| 16- CART | |
| 17- ANTI-VIBRATION DAMPERS | |
| 18- BRASS ANGLE PIPE F/F | |
| 19- SHORT VALVE BODY | |
| 20- THREE WAY VALVE | |
| 21- PVC HOSE | |
| 22- PRESSURE REGULATOR | |
| 23- FITTING M/F | |
| 24- NETTED HOSE | |

PACKAGING CONTENT

- 1 envelope of fittings
- 1 instruction manual
- 2 stainless steel flexible hoses
- 2 harmored hoses
- 2 2-way valves

MAINTENANCE

Important: after use at the end of the day:

1. Carefully wash the pump and filter with recirculated water for at least 10 minutes to remove sludge and the descaling solution. To improve the maintenance you can use a small quantity of BP 100 in recirculation.
 2. Replace the sponge filter in the tank whenever it becomes necessary. Never use a dirty filter for additives or antifreeze loading.
 3. To avoid any corrosion and blockage of the impeller, remove as much water as possible from the pump, the pipes and the tank.
 4. Periodically unscrew the drain nut on the body of the pump and spray an anticorrosive product. Observe the rules for the use and the disposal of the exhausted solution. In case of dripping it is recommended an immediate cleaning with water rinse. Avoid getting the pump motor wet.
- NEVER LEAVE THE PUMP IN FUNCTION. NEVER USE THE PUMP FOR RECIRCULATION OF ACIDIC PRODUCTS.**

OPTIONAL

Pump cleaning adaptor
cod.301310001



SIMILAR PRODUCTS

Boss Pulisci grandi impianti
COD. 301301011



SIMILAR PRODUCTS

1. Conditioning Products
2. Geothermal Products
3. Cooling Products

OFFER DESCRIPTION

Twin impeller with high flow rate and hydraulic head, safety by-pass valve and appropriate adjustment to washing and loading of hydraulic installations. Complete of piping and fittings, pressure gauge, no-return valve with electric control, recirculation and drain 3-way valve. 20 litres tank with washable filter equipped with security float for anti-flooding and anti-emptying of the plant. Flow rate and hydraulic head fully adjustable. Complete with electrical panel, Start/Stop push button, safety and fuse holders.

Insulation materials and construction of electrical parts are in compliance with CEI regulations. Insulation degree IP 44.

COMPLIANCE

The product BOSS PULISCI PROVA IMPIANTI MEDIA is designed and manufactured in compliance with the following European directives (included all the applicable amendments):

Directive 2006/42/EC: Machines

Directive 2014/35/EU: Low Voltage

Directive 2014/30/EU: Electromagnetic Compatibility

Directive 2011/65/EC: RoHS 2

Further declares that the product's electrical material is in accordance with the following regulations: CEI-EN 60034-1: Rotating electrical machines. Part 1: Nominal and operating characteristics.

PRODUCT ORIGIN

 Made in Italy

T.D.S. 358.00
Issue Date: 19/12/2017
Revision Date:

Boiler Performance by Manta Ecologica S.r.l.
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