

## NOCCHI MINIVORT PP

### ELECTRIC SUBMERSIBLE VORTEX PUMPS FOR SEWAGE WORKS

MINIVORT P pumps are constructed entirely in cast iron and are designed for continuous duty in fixed installations. Designed for vortex operation, with retracted impeller.

#### MOTOR

- Dry motor.
- Protection rating IP 68.
- Insulation class F.
- Single phase power supply with permanently activated capacitor and thermal cutout protection incorporated in the motor winding.
- Three phase power supply with external protection to be fitted by the user.
- Self-lubricating ball bearings.
- Rotation speed 2850 rpm.

#### APPLICATIONS

- Lifting and draining of waste water; civil and industrial sewage works with suspended solid bodies
- Emptying of septic tanks, cess pits, handling of waste and sewage water
- Lifting stations with one or more pumps for industrial and civil complexes.
- On request, coupling base to facilitate installation and maintenance.

#### APPLICATION DATA

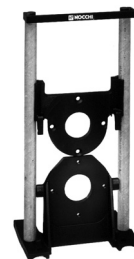
- Type of liquid: waste water, slurry and sewage.
- Maximum liquid temperature: 40°C.
- Maximum immersion below water level: 7m.
- Minimum drainage level 72 mm (on manual version).
- Free transit of solid bodies: 58 mm.

#### DESIGN SPECIFICATIONS

- Automatic single phase version with float switch and watertight electrical panel, incorporating capacitor, thermal cutout protection and manual/automatic switching module.
- 10 m H07 RN-F power cable .
- Three phase version, 10m H07 RN-F power cable.
- Flanged outlet port, with round threaded counter-flange, 2" female.

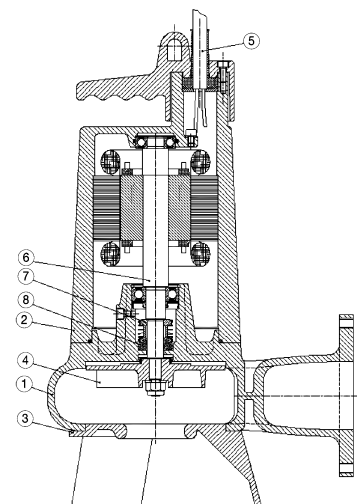
#### OPTIONAL

- Cast iron coupling base



#### TABLE OF MATERIALS

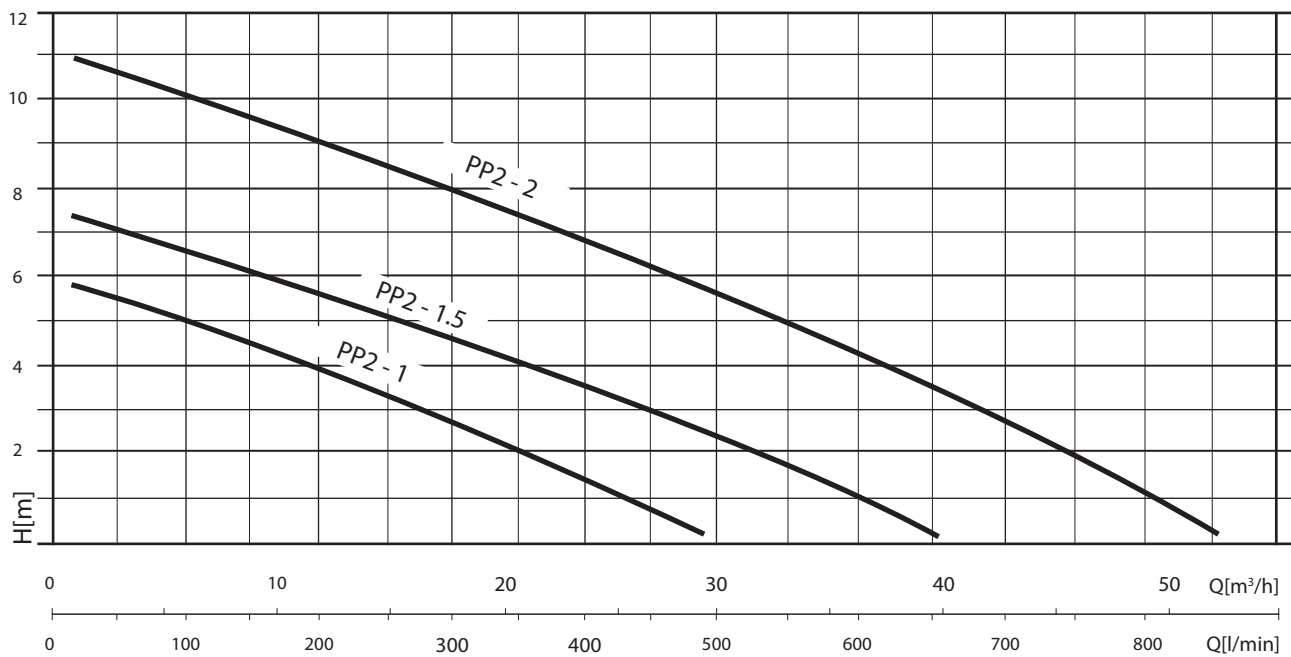
| Component |                   | Material                                   |                           |
|-----------|-------------------|--------------------------------------------|---------------------------|
| 1         | Pump body         | Grey cast iron EN GJL 200 (ex G20)         |                           |
| 2         | Motor body        | Grey cast iron EN GJL 200 (ex G20)         |                           |
| 3         | Support base      | Grey cast iron EN GJL 200 (ex G20)         |                           |
| 4         | Impeller          | Grey cast iron EN GJL 200 (ex G20)         |                           |
| 5         | Power cable       | 10 m H07 RN-F                              |                           |
| 6         | Motor shaft       | Stainless steel X 12 CrNiS 1809 (AISI 416) |                           |
| 7         | Mechanical gasket | Graphite                                   | Lubricated in oil chamber |
| 8         | Counterface       | Ceramic                                    |                           |
| 9         | Lip seal          | Rubber NBR 70                              |                           |



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### HYDRAULIC PERFORMANCE



| MODEL                                                                     | Motor out-put (P2) |      | Power Motor (P1) |     | VOLT                                            | In (A)            | μF       | Q               | L/ min | 100 | 200 | 300 | 400 | 600 | 800 |
|---------------------------------------------------------------------------|--------------------|------|------------------|-----|-------------------------------------------------|-------------------|----------|-----------------|--------|-----|-----|-----|-----|-----|-----|
|                                                                           | HP                 | kW   | HP               | kW  |                                                 |                   |          |                 | m³/h   | 6   | 12  | 18  | 24  | 36  | 48  |
| MINIVORT PP2 - 1 M<br>MINIVORT PP2 - 1 M AUT*<br>MINIVORT PP2 - 1 T       | 1                  | 0.75 | 2                | 1.5 | 1 ~ 220 - 240 V<br>1 ~ 220 - 240 V<br>3 ~ 400 V | 6.2<br>6.2<br>2.3 | 20<br>20 | n.c.a. / m.w.c. | 5      | 4   | 3   | 1.6 |     |     |     |
| MINIVORT PP2 - 1.5 M<br>MINIVORT PP2 - 1.5 M AUT*<br>MINIVORT PP2 - 1.5 T | 1.6                | 1.2  | 2.5              | 1.8 | 1 ~ 220 - 240 V<br>1 ~ 220 - 240 V<br>3 ~ 400 V | 8.2<br>8.2<br>3   | 25<br>25 |                 | 6.7    | 5.7 | 4.6 | 3.3 | 1   |     |     |
| MINIVORT PP2 - 2 M<br>MINIVORT PP2 - 2 M AUT*<br>MINIVORT PP2 - 2 T       | 2                  | 1.5  | 3                | 2.2 | 1 ~ 220 - 240 V<br>1 ~ 220 - 240 V<br>3 ~ 400 V | 9.8<br>9.8<br>3.5 | 35<br>35 |                 | 10     | 9.3 | 8.2 | 7   | 4.2 | 1   |     |

### OVERALL DIMENSIONS AND WEIGHTS

| MODEL              | Dimensions (mm) |     |     |     |        | Weight (kg) |
|--------------------|-----------------|-----|-----|-----|--------|-------------|
|                    | A               | B   | C   | D   | DNM    |             |
| MINIVORT PP2 - 1   | 72              | 475 | 115 | 325 | 2 1/2" | 30          |
| MINIVORT PP2 - 1.5 | 72              | 475 | 115 | 325 | 2 1/2" | 31          |
| MINIVORT PP2 - 2   | 72              | 475 | 115 | 325 | 2 1/2" | 28          |

