

## 4" submersible pump with peripheral impeller

 Clean water

 Domestic use

 Agricultural use



### PERFORMANCE RANGE

- Flow rate up to **50 l/min** (3.0 m<sup>3</sup>/h)
- Head up to **75 m**

### APPLICATION LIMITS

- Maximum liquid temperature **+40 °C**
- Maximum immersion depth of **40 m** with a sufficiently long power cable
- Vertical and horizontal installation
- Continuous service **S1**

### CONSTRUCTION AND SAFETY STANDARDS

EN 60335-1  
IEC 60335-1  
CEI 61-150

EN 60034-1  
IEC 60034-1  
CEI 2-3



### CERTIFICATIONS

Company with management system certified DNV  
ISO 9001: QUALITY  
ISO 14001: ENVIRONMENT



### INSTALLATION AND USE

Suitable for use with **clean water that does not contain abrasive particles** and with liquids that are not chemically aggressive towards the materials from which the pump is made. Because of their compact design and economy, they are suitable for domestic applications such as the distribution of water in combination with small pressure tanks and for irrigation, etc.

### PATENTS - TRADE MARKS - MODELS

- Patent Pending n. PCT/IB2009/051491
- Patent n. EP09781276.2
- Registered Trade Mark n. 0001552668 **DAVIS®**

### OPTIONS AVAILABLE ON REQUEST

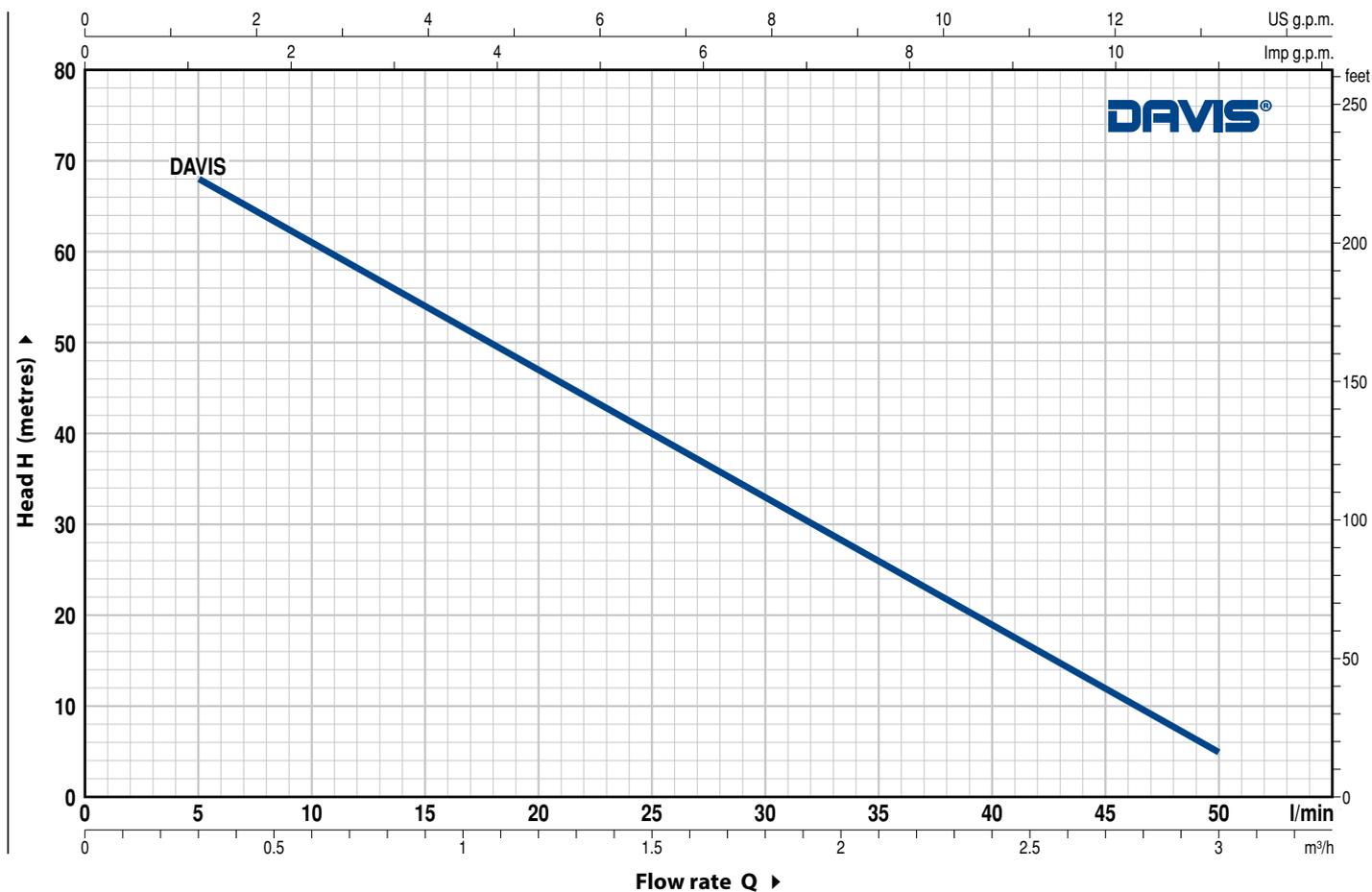
- **30 metres long power cable**
- Other voltages or 60 Hz frequency

► **Ready to install, stainless steel monoblock submersible pump.**

**Complete with: – motor with built-in capacitor and thermal overload protector  
– 20 m long power cable.**

## CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 rpm



| MODEL        | POWER (P <sub>2</sub> ) |    | Q        | 0  | 0.3 | 0.6 | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 | 3.0 |
|--------------|-------------------------|----|----------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|              | kW                      | HP |          | 0  | 5   | 10  | 15  | 20  | 25  | 30  | 35  | 40  | 45  | 50  |
| Single-phase |                         |    |          |    |     |     |     |     |     |     |     |     |     |     |
| DAVIS®       | 0.75                    | 1  | H metres | 75 | 68  | 61  | 54  | 47  | 40  | 33  | 26  | 19  | 12  | 5   |

Q = Flow rate H = Total manometric head

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

## POS. COMPONENT

## CONSTRUCTION CHARACTERISTICS

|   |                             |  |
|---|-----------------------------|--|
| 1 | <b>DELIVERY BODY</b>        | Stainless steel AISI 304 complete with threaded delivery port in compliance with ISO 228/1 |
| 2 | <b>PUMP BODY BACK PLATE</b> | Brass  |
| 3 | <b>IMPELLER</b>             | Brass with peripheral radial vanes   |
| 4 | <b>MOTOR SLEEVE</b>         | Stainless steel AISI 304   |
| 5 | <b>MOTOR SHAFT</b>          | Stainless steel EN 10088-3 - 1.4104  |

### 6 TWO MECHANICAL SEALS SEPARATED BY AN OIL CHAMBER

| Seal Model | Shaft Diameter | Position   | Materials       |                 |           |
|------------|----------------|------------|-----------------|-----------------|-----------|
|            |                |            | Stationary ring | Rotational ring | Elastomer |
| AR-14      | Ø 14 mm        | Motor side | Ceramic         | Graphite        | NBR       |
| ST1-14 SIC | Ø 14 mm        | Pump side  | Ceramic         | Silicon carbide | NBR       |

### 7 BEARINGS 6203 ZZ - C3E / 6203 ZZ - C3E

### 8 CAPACITOR

#### Capacitance

| (230 V or 240 V) | (110 V)        |
|------------------|----------------|
| 31.5 µF - 500 VL | 70 µF - 250 VL |

### 9 ELECTRIC MOTOR

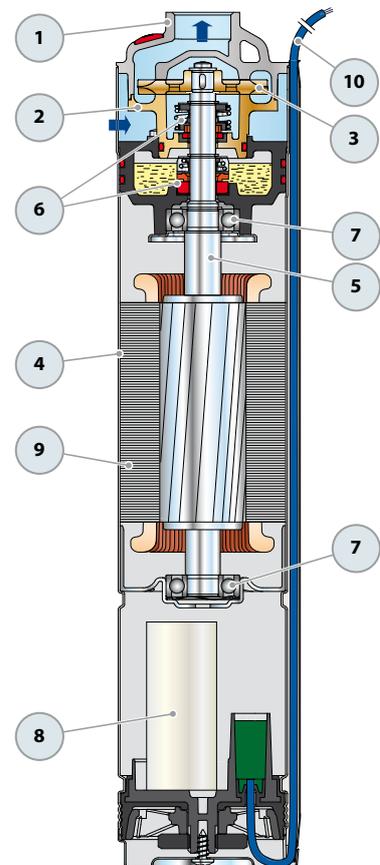
Submersible PEDROLLO motor, suitable for continuous duty (with dry, rewindable stator).

**DAVIS**®: single-phase 230 V - 50 Hz  
 Motor with built-in capacitor.  
 Thermal overload protector incorporated into the winding.

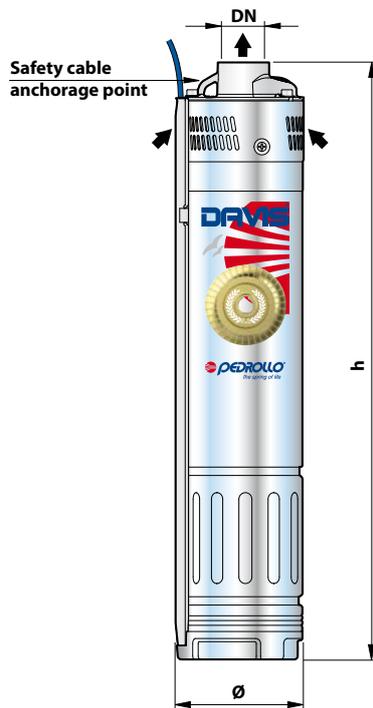
- Insulation: class F
- Protection: IP X8

### 10 POWER CABLE

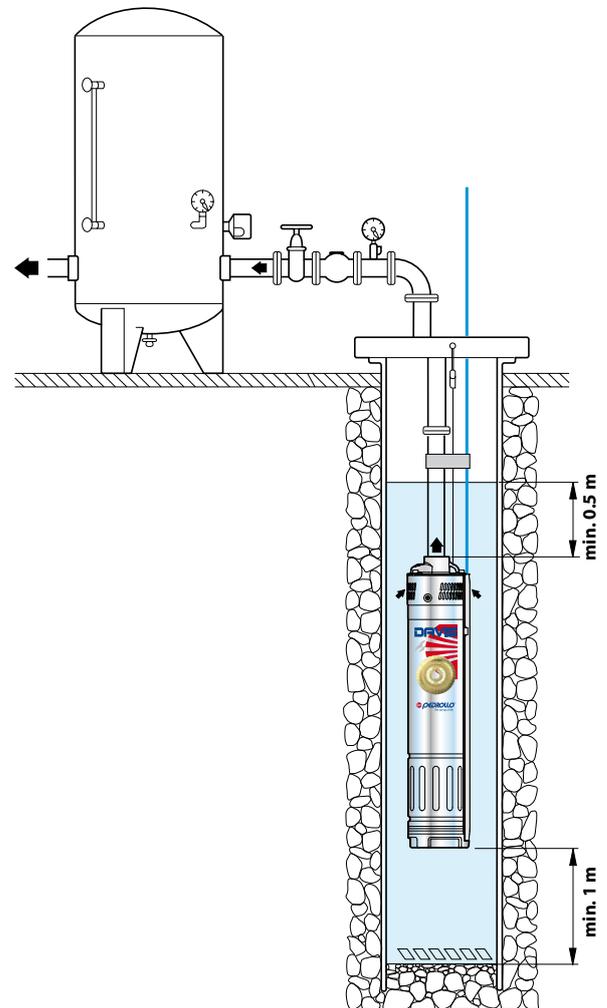
⇒ **PBS-P type**  
**approved for use in drinking water by "ACS"**  
**in compliance with BS 6920, approval . 04 ACCLI 201**  
**Standard length 20 metres**



## DIMENSIONS AND WEIGHT



Standard installation



| MODEL        | PORT | DIMENSIONS mm |     | kg   |
|--------------|------|---------------|-----|------|
|              |      | Ø             | h   |      |
| Single-phase | DN   |               |     |      |
| DAVIS®       | 1"   | 101           | 470 | 12.6 |

## ABSORPTION

| MODEL  | VOLTAGE      |       |        |
|--------|--------------|-------|--------|
|        | Single-phase | 230 V | 240 V  |
| DAVIS® | 5.7 A        | 5.5 A | 11.4 A |

## PALLETIZATION

| MODEL  | GROUPAGE/ CONTAINER |
|--------|---------------------|
|        | Single-phase        |
| DAVIS® | 60                  |