





PM S.r.l. was established in 2008 to then quickly become one of the leading Italian and international companies operating in the production of submersible motors.

Our strengths are based on over 30 years of experience of the founding partner applied to the most modern technologies and an in-depth knowledge of international markets.

As a result PM has managed to establish itself as a modern, dynamic company focusing on continuous improvement. Each PM Technology product is the expression of careful and enthusiastic work based on research and design with exclusive attention to performance, quality of the materials used and highest competitiveness possible. The result is an extremely reliable and efficient product range in which every detail is carefully researched, all distinguishing features of Made in Italy excellence. These key elements which embody profound love for an art passed down from father to son currently guide PM S.r.l.

PM is committed to offering high quality and reliable products at a competitive price, while meeting the needs of its customers with meticulous and punctual service. Substantial annual investments in product, production process and machinery automation go with our daily activity to make our products ever more competitive and efficient.



ISO 9001 CERTIFIED COMPANY
100% PRODUCT TESTED
3 PRODUCTION PLANTS
PRESENT IN MORE THAN 40 COUNTRIES
160.000 MOTORS MANUFACTURED PER YEAR

4OM

4" rewindable oil filled submersible motors

Building features:

- Rewindable motor
- Upper bracket: cast iron with cataphoresis treatment
- External sleeve: AISI 304L stainless steel
- Bottom: AISI 304 stainless steel
- Shaft: carbon-steel alloys
- Shaft projection: AISI 304 stainless steel; DUPLEX in motors bigger than 3Hp
- Cooling liquid: mineral white oil (F.D.A. approved)
- Ball-bearings
- Mechanical seal: graphite/ceramic; SIC-SIC upon request
- Special additional sand filter
- Removable power cable-connector (KTW, ACS, WRAS approved)

Application features:

- 4" NEMA flange
- F-class insulation
- IP68-rating protection
- Pumped liquid temperature: 0°C - 35°C; 32°F - 95°F
- Min. cooling flow: 0,1 m/s; 0,328 ft/s
- Max. immersion depth: 200m
- Max. starts/hour: 30
- Voltage tolerance: +/- 10%
- Mounting: vertical to horizontal
- Motor range: 0,5Hp – 5,5Hp single-phase; 0,5Hp – 10Hp three-phase
- Thrust load range: 0,5Hp – 3Hp 2.000N; 3Hp – 4Hp 3.000N; 5,5Hp – 10Hp 5.000N
- Single phase version: PSC type (permanent split capacitor)

Special version available upon request concerning special cable lengths, special voltage, thrust load,...



4OM2W

4" 1-phase 2-wire oil filled submersible motors

Building features:

- Rewindable 1-phase motor
- Built-in capacitor and thermal protection
- Upper bracket: cast iron with cataphoresis treatment
- External sleeve: AISI 304L stainless steel
- Bottom: AISI 304 stainless steel
- Shaft: carbon-steel alloys
- Shaft projection: AISI 304 stainless steel
- Cooling liquid: mineral white oil (F.D.A. approved)
- Ball-bearings
- Mechanical seal: graphite/ceramic; SIC-SIC upon request
- Special additional sand filter
- Removable power cable-connector (KTW, ACS, WRAS approved), available in 3 different lengths: 1,5m, 20m or 30m

Application features:

- 4" NEMA flange
- F-class insulation
- IP68-rating protection
- Pumped liquid temperature: 0°C - 35°C; 32°F - 95°F
- Min. cooling flow: 0,1 m/s; 0,328 ft/s
- Max. immersion depth: 200m
- Max. starts/hour: 30
- Voltage tolerance: +/- 10%
- Mounting: vertical to horizontal
- Motor range: 0,75-1,5Hp/50Hz; 0,5-1,5Hp/60Hz single-phase
- Thrust load range: 0,75-1,5Hp/50Hz 2.000N; : 0,5-1,5Hp/60Hz 2.000N

Advantages:

- No control panel needed

Special version available upon request concerning special cable lengths, special voltage, thrust load,...

4WM

4" water cooled submersible motors, canned type

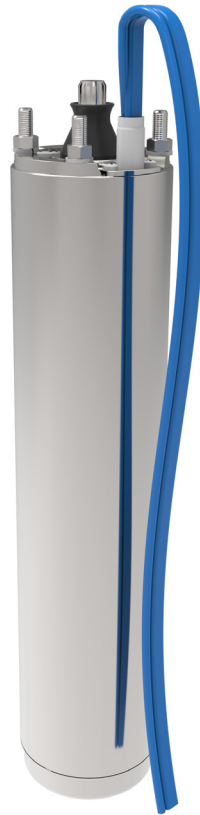
Building features:

- Airtight sealed and resin encapsulated stator
- Shaft: carbon-steel alloys
- Shaft projection: AISI 304 stainless steel; DUPLEX in motors bigger than 3Hp
- Filling liquid: mixture of water and propylene glycol
- Restore liquid valve
- Thrust bearing system: Kingsbury-type
- Removable power cable-connector (KTW, ACS, WRAS approved)

Application features:

- 4" NEMA flange
- F-class insulation
- IP68-rating protection
- Pumped liquid temperature: 0°C - 35°C; 32°F - 95°F
- Min. cooling flow 0,1 m/s; 0,328 ft/s
- Max. immersion depth: 300m
- Max. starts/hour: 30
- Voltage tolerance: +/- 10%
- Mounting: vertical to horizontal
- Motor range: 0,5Hp – 5,5Hp single-phase; 0,5Hp – 10Hp three-phase
- Thrust load range: 0,5Hp – 1,5Hp 2.000N; 2Hp – 4Hp 3.000N; 4Hp – 10Hp 6.500N
- Single phase version: PSC type (permanent split capacitor)

Special version available upon request concerning special cable lengths, special voltage, thrust load,...



FROG

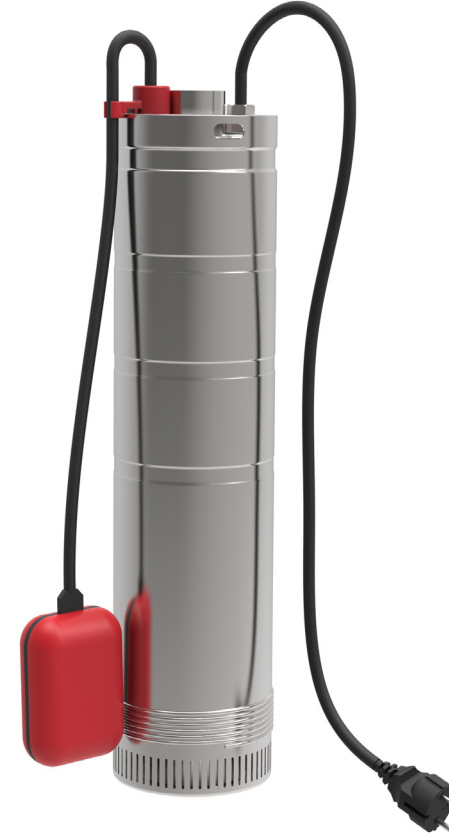
5" submersible monoblock electropumps

Building features:

- Asynchronous motor
- Removable power cable-connector
- Removable float-switch connection system
- Techno-polymer impellers and diffusers
- AISI 304 stainless steel pump outlet
- AISI 304L stainless steel sleeve
- AISI 304 stainless steel intake filter
- Double mechanical seal
- B-class capacitor
- Single-phase version featuring capacitor with overload protection and automatic resetting system
- 10m-length cable for standard version; 20m, 40m cable lengths available upon request

Application features:

- F-class insulation
- IP68-rating protection
- Pumped liquid temperature: 0°C – 35°C; 32°F - 95°F
- Max.tolerated sand in water: 50 g/m³
- Max.immersion depth.: 40 m
- Max.starts/ hour.: 30
- Voltage tolerance: +/- 10%



KTW,WRAS,ACS type-approved cable and float switch available upon request.

6OM

6" rewindable oil filled submersible motors

Building features:

- Rewindable motor
- Upper bracket: cast iron with cataphoresis treatment; 316 stainless steel available upon request
- External sleeve: AISI 304L stainless steel
- Bottom: AISI 304 stainless steel
- Shaft: carbon-steel alloys
- Shaft projection: DUPLEX stainless steel
- Cooling liquid: mineral white oil (F.D.A. approved)
- Ball-bearings
- Mechanical seal: graphite/ceramic; SIC-SIC upon request
- Removable power cable-connector (KTW, ACS, WRAS approved)
- D.O.L. Starting and Δ Starting versions available

Application features:

- 6" NEMA flange
- F-class insulation
- IP68-rating protection
- Pumped liquid temperature: 0°C - 35°C; 32°F - 95°F
- Min. cooling flow 0,1 m/s; 0,328 ft/s
- Max. immersion depth: 200m
- Max. starts/hour: 30
- Voltage tolerance: +/- 10%
- Mounting: vertical (horizontal up to 20Hp)
- Motor range: 5,5Hp – 50Hp
- Thrust load range: 5,5Hp – 20Hp 10.000N; 25p – 50Hp 20.000N

Special version available upon request concerning special cable lengths, special voltage, thrust load, 316 stainless steel upper bracket...



6WM

6" rewindable water cooled submersible motors

Building features:

- Rewindable motor
- Upper/Lower bracket: GS400 spheroidal cast iron with cataphoresis treatment
- Stator: covered by an AISI 304 stainless steel sleeve
- Asynchronous-type windings: PVC insulation; PE2+PA insulation "inverter resistant" upon request
- Filling liquid: mixture of water and propylene glycol
- Thrust bearing system: bidirectional Michelle-type
- Shaft: AISI 420 stainless steel, without welding
- Mechanical seal: SIC-SIC
- EPR power cable-connector (KTW, ACS, WRAS approved)
- D.O.L. Starting (400V) and Δ Starting (400/690V) versions available

Application features:

- 6" NEMA flange
- Insulation class: PVC (Y); PE2+PA (B)
- IP68-rating protection
- Pumped liquid temperature:
PVC 30°C - 86°F (5,5Hp – 40Hp), 25°C - 77°F (50Hp)
PE2+PA 55°C - 131°F (5,5Hp – 40Hp), 45°C - 113°F (50Hp – 60Hp)
- Min. cooling flow: 0,15 m/s; 0,492 ft/s
- Max. immersion depth: 350m
- Max. starts/hour: 10
- Voltage tolerance: -10% / +6%
- Mounting: vertical to horizontal
- Motor range: 5,5Hp – 60Hp
- Thrust load range: 5,5Hp – 20Hp 18.000N; 25Hp – 60Hp 25.000N

Special version available upon request concerning special cable lengths, special voltage, thrust load, PT100 temperature sensor,...



4OM - E

4" variable speed submersible motors

Building features:

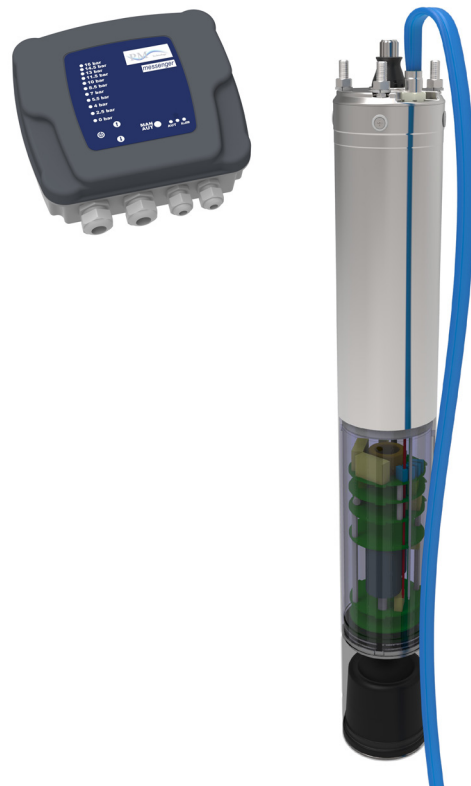
- 4" oil filled submersible motor
- Motor with inverter on-board
- Externally motor side full made in AISI 304
- Upper bracket: cast iron with cataphoresis treatment
- Shaft projection: AISI 304 stainless steel
- Interface *Messenger* control board
- *Messenger* endowed with pressure transducer

Application features:

- 4" NEMA flange
- IP68-rating protection for motor
- IP55-rating protection for *Messenger*
- Max. immersion depth: 200m

Advantages:

- Keeping system at constant pressure
- Variable speed (15-55 Hz)
- Dry running protection
- Higher electrical protection to motor
- Energy saving
- Water hammer elimination
- Easier plant configuration



Patent N. 0001397548
Patent N. US 9,353,766 B2



Building features:

- 4" oil filled submersible motor
- *Solar Messenger* control board/inverter (MPPT algorithm)
- Fully automatic operation
- Battery less

Advantages:

- Eco-friendly system
- No maintenance costs
- No operation costs
- No battery (cost saving associated to battery purchasing, maintenance, replacement and disposal)
- Easy installation
- Fully automatic operation

Kit:

- 4" asynchronous motors: 0,75Hp - 1Hp - 1,5Hp - 2Hp + *Solar Messenger* device

4PMS

4" submersible motors powered by PV system

Photovoltaic panels available upon request.

C-BOX

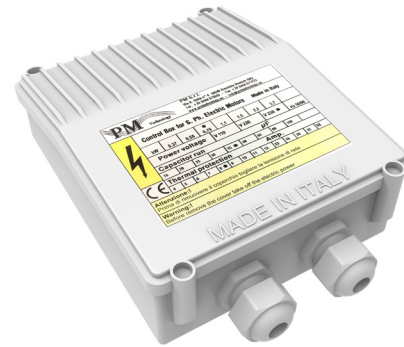
Control box

Building features:

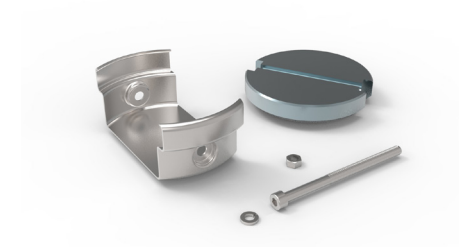
- Thermal-amperometric protection and start capacitor included
- Box made of thermoplastic insulating material
- On/off switch
- Externally resettable thermal protection
- Output with cable glands
- Auxiliary input for control by probes, float switch
- Motor range: 0,5Hp – 5,5Hp

Application features:

- Single-phase electropumps protection
- IP54-rating protection

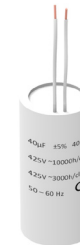


SACRIFICIAL ANODE



Product: 4OM – 4OM2W

CAPACITORS



Product: 4OM – 4OM2W – 4WM

ACCESSORIES

CABLES



Product: 4OM – 4OM2W – 4WM – 6OM

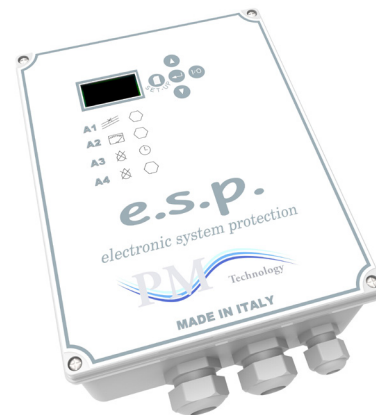
E.S.P.

Building features:

- Manual and automatic function
- Both single and three-phase version available
- Output with cable glands
- Auxiliary input for control by float switch, pressure switch, ...
- Motor range: 0,5Hp – 15Hp

Application features and protections:

- Protection against dry running
- No need for probes
- IP55-rating protection
- Electrical protection against motor overload
- Protection against no phase
- Protection against over voltage



Product: FROG





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