

# Submersible Electric Pumps for Dirty Water

## DIWA Series



Submersible pumps for dirty water manufactured in AISI 304 stainless steel. Head up to 20 meters, capacity up to 425 l/min (25.5 m<sup>3</sup>/h). Four basic versions with 0.55 (0.75 HP) to 1.5 kW (2HP) rated power.

### DRIVELUB SEAL SYSTEM

Diffuser plate coated with polyurethane elastomer for maximum abrasion resistance.



### APPLICATIONS

- Draining of cellars, garages, basements.
- Draining of construction sites.
- Emptying of tanks and reservoirs.
- Lawn and garden irrigation.
- Fountains.
- Pumping of domestic wastewater (washing machines, showers, sinks).
- Emptying of tanks in industrial and ecological applications.

### SPECIFICATIONS

- Liquid temperature up to 50°C.
- Open impeller.
- Minimum level of pumped liquid: 25 mm.
- Suspended solids handled up to 8 mm in diameter.
- Maximum immersion depth: 7m.
- 10 meters of HO7RN-F type neoprene power cord.
- Dry motor (class F insulation) cooled by pumped liquid.

- Versions:
  - Single-phase 220-240 V 50 Hz 2 poles with built-in thermal protector.
  - Three-phase 380-415 V 50 Hz 2 poles.
- Motor power
  - 0.55 to 1.1 kW for single-phase version.
  - 0,55 to 1,5 kW for three-phase version.

The single-phase versions features:  
Pre-assembled float (version without float available on request).  
Built-in capacitor (except for DIWA 11 version with control box on cable).

Thermal protector.  
- 60 Hz and floatless (SG) versions available.

### DRIVELUB SEAL SYSTEM

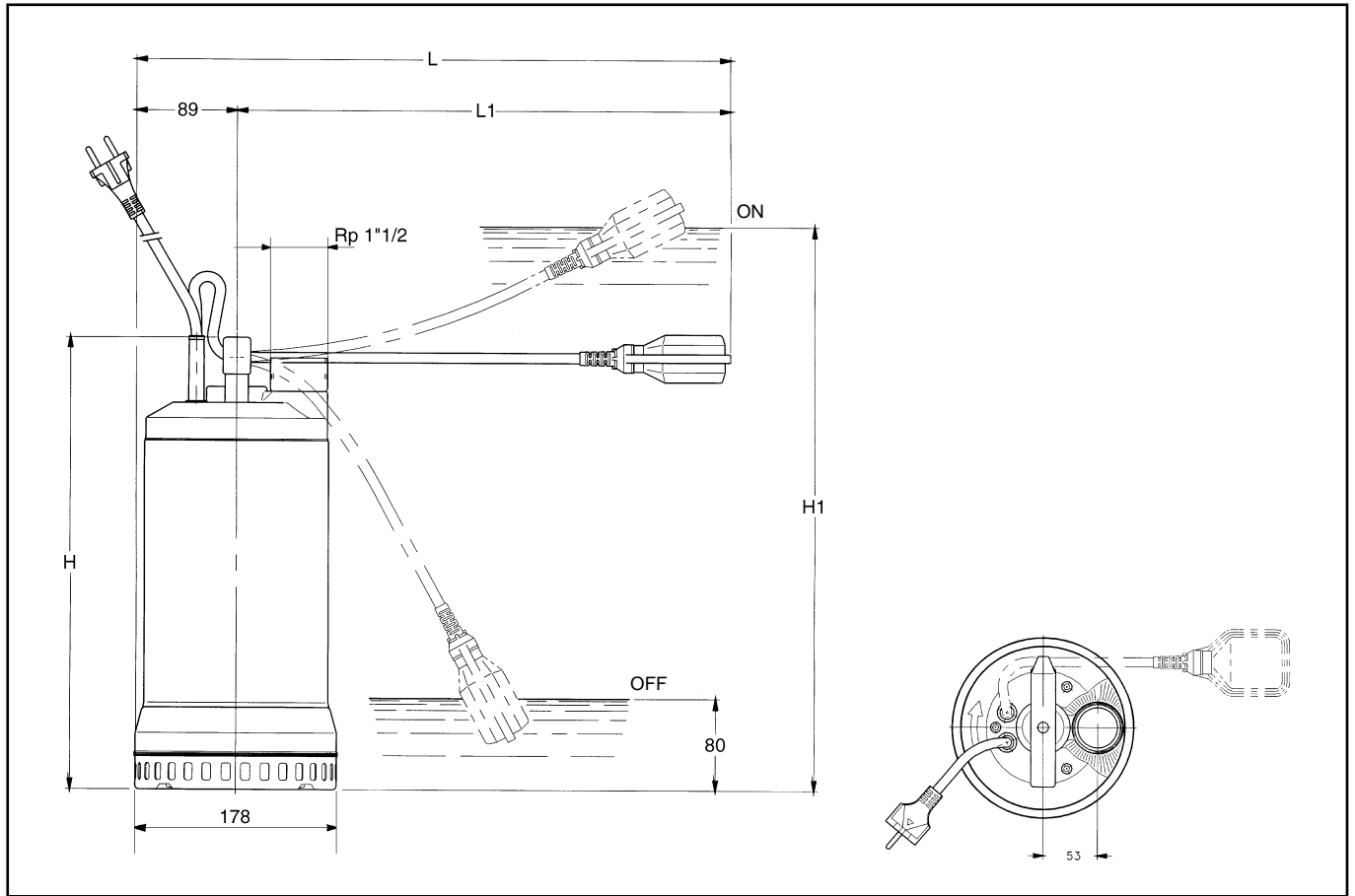
- Watertight electric motor protected by multiple seal system with oil chamber.  
A V-ring and silicon carbide mechanical seal (extremely resistant to wear and abrasion), as well as a lip seal which is continuously lubricated by the DRIVELUB system, provide an extremely efficient barrier against ingress.

### TABLE OF MATERIALS

PART	MATERIAL
Pump body Motor casing Outer sleeve Impeller Shaft extension Suction screen Nuts and bolts	STAINLESS STEEL (AISI 304 - DIN 1.4301)
Front diffuser plate	STAINLESS STEEL (AISI 304 - DIN 1.4301) COATED WITH POLYURETHANE ELASTOMER
Lower mechanical seal Upper lip seal	SILICON CARBIDE/ SILICON CARBIDE
Elastomers	NITRILE RUBBER
Handle	STAINLESS STEEL (AISI 304 - DIN 1.4301) COATED WITH POLYACETAL RESINS



DIWA SERIES DIMENSIONS AND WEIGHTS

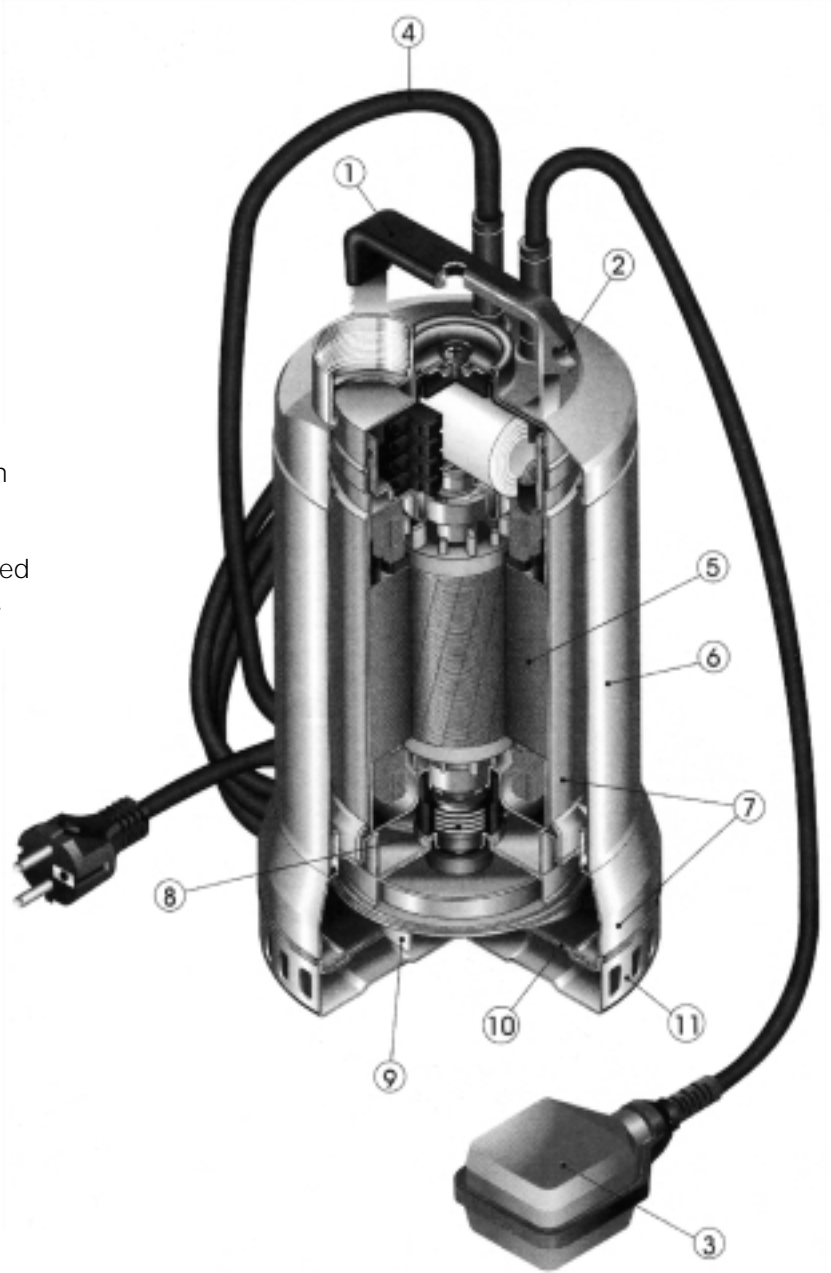


DIWA

PUMP TYPE	DIMENSIONS IN mm				WEIGHT kg
	H	H1	L	L1	
DIWA 05	343	425	459	370	12
DIWA 05T	343	-	-	-	11
DIWA 07T	358	-	-	-	13
DIWA 07	378	470	504	415	14,3
DIWA 11T	378	-	-	-	15
DIWA 11	398	495	524	435	17
DIWA 15T	398	-	-	-	16,5

## PUMP SECTION AND LIST OF MAIN COMPONENTS

- 1 Handle.  
Made of AISI 304 – DIN 1.4301 stainless steel coated with polyacetal resins.
- 2 Cable gland.  
The float cable can be secured at different lengths to start the pump at the desired liquid level.
- 3 Float.  
In compliance with European standards.
- 4 Power supply cable.  
HO7RN-F type.
- 5 Motor.  
With dry winding, class F insulation.
- 6 Cooling jacket.  
AISI 304 – DIN 1.4301 stainless steel.
- 7 Motor casing and pump body.  
AISI 304 – DIN 1.4301 stainless steel.
- 8 Seal system.  
Lowara – DRIVELUB double seal with oil chamber.
- 9 Impeller.  
AISI 304 – DIN 1.4301 stainless steel open impeller.
- 10 Diffuser plate.  
AISI 304 – DIN 1.4301 stainless steel coated with abrasion-resistant polyurethane resin.
- 11 Filter.  
AISI 304 – DIN 1.4301 stainless steel.  
25 mm minimum level of pumped liquid, passes solids up to 8 mm dia.



DIWA



The Lowara S.p.A. research laboratories have developed an original method for detecting wear through the use of fluids containing abrasive particles. When tested after 100 hours of operation, pumps with traditional coatings reveal a high degree of wear. DIWA, thanks to its novel coating, shows no sign of abrasion. The pump's characteristic curves and performance remain unaltered for a period approximately 5 times longer than pumps with traditional coatings.