

# DIG 1100-1500-1800-2200

## SUBMERSIBLE PUMPS



### TECHNICAL DATA

#### Operating range:

from 6 to 54 m<sup>3</sup>/h with head up to 20 metres.

**Pumped liquid:** rain water, ground water, sandy water from construction site, water containing abrasive particles in general.

**Free passage of solids:** 6 mm.

**Liquid temperature range:** from 0 °C to 35 °C.

**Maximum immersion depth:** 20 metres (with cable of appropriate length).

**Motor protection class:** IP 68.

**Insulation class:** F.

**Standard voltage:** 220-240 V - 50Hz single-phase.  
380-415 V - 50Hz three-phase.

**Installation:** fixed or portable, vertical position.

Continuous service with completely or partially submerged pump.

#### Power cable:

10 metres H07RN-F. Special patented steel core reinforced tear-resistant electric cable also available on request.

### APPLICATIONS

Portable pumps, ideal for draining abrasive liquids in the field:

- Building, tunnel, or infrastructure construction sites
- Civil, for pedestrian subways and car parks
- Industrial, for process waters
- Open mines and caves
- Municipal, for emergency sandy water flooding

### CONSTRUCTION FEATURES OF THE PUMP

Pump body made of EN GJL 200 cast iron, internally lined with high abrasion and wear resistance Nitrile (NR) rubber.

Double silicon carbide/silicon carbide mechanical seal on the pump side and carbon/alumina seal on the motor side, in oil chamber plus lip seal.

AISI 304 stainless steel suction grid

Delivery ND: 2"½

Open CRA2 650 HB chrome cast iron impeller

### CONSTRUCTION FEATURES OF THE MOTOR

Dry, asynchronous and waterproof type motor, cooled by the pumped liquid. Rotor mounted on permanently lubricated ball bearings, oversized to ensure long-term reliability and extended lifetime. Standard built-in thermo-amperometric protection. Capacitor permanently fitted on single phase versions. Continuous S1 service with completely or partially submerged pump.

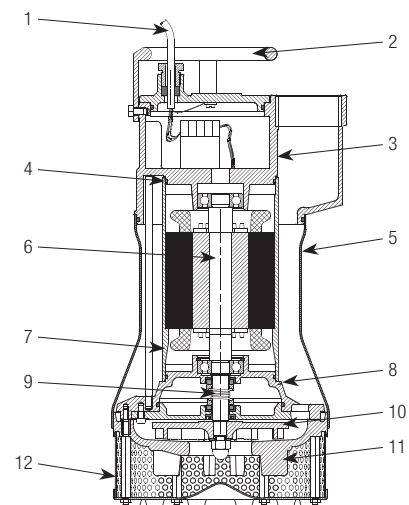
Number of poles: 2

Max starts/hour: 15

### MATERIALS

N.	PARTS*	MATERIALS
1	POWER INPUT CABLE	H07RN-F
2	HANDLE	CHROME STEEL
3	UPPER COVER	EN GJL 200 CAST IRON
4	OR	NBR
5	EXTERNAL COOLING LINER	AISI 304 STAINLESS STEEL
6	ROTOR SHAFT	AISI 420
7	MOTOR BODY	AISI 304
8	BEARING FLANGE	EN GJL 200 CAST IRON
9	MECHANICAL SEAL	MOTOR: CARBON/ALUMINA PUMP: SILICON CARBIDE/SILICON CARBIDE
10	IMPELLER	AISI ASTM 532-80
11	HYDRAULIC BODY	70SHORE ABRASION RESISTANCE RUBBER
12	GRID	AISI 304 STAINLESS STEEL

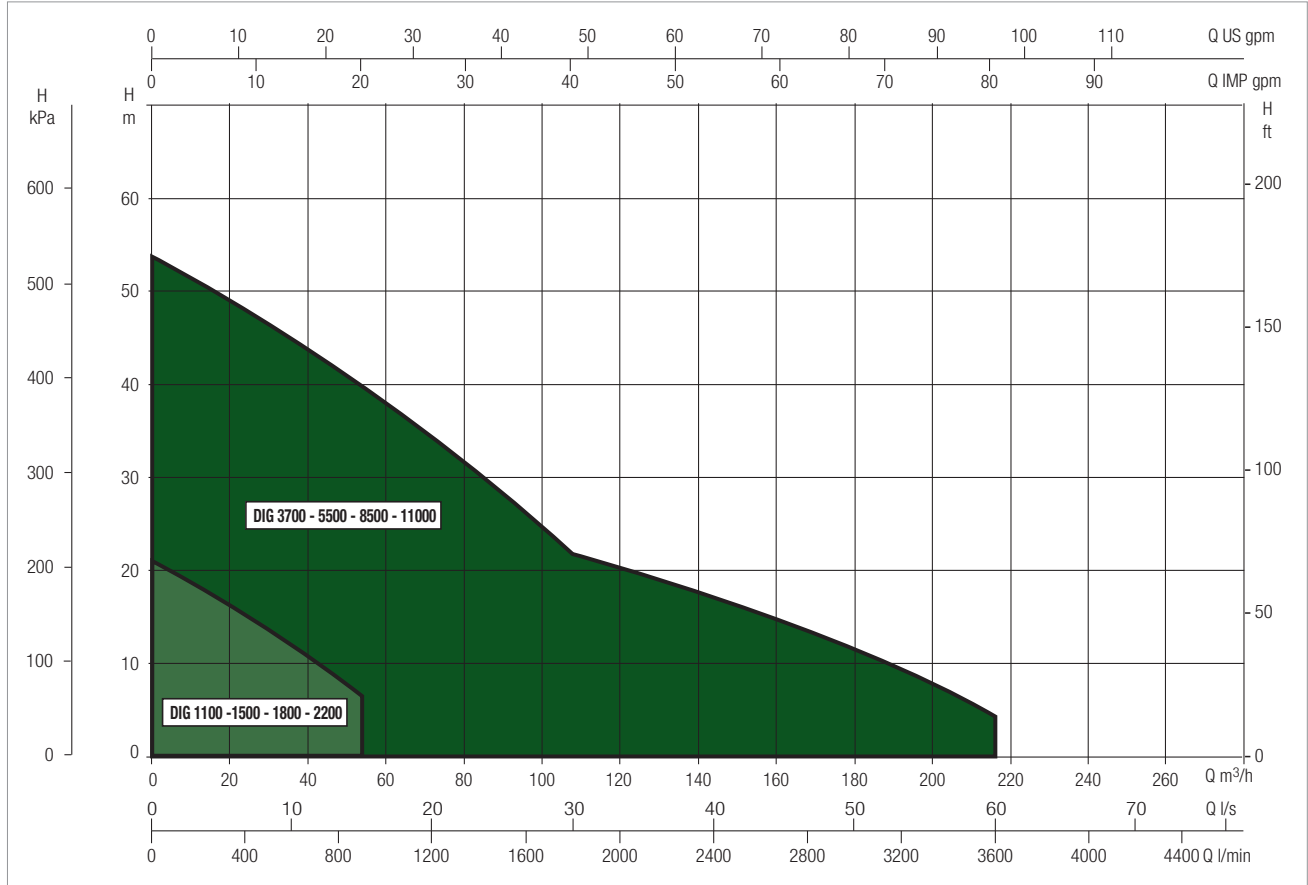
\* In contact with the liquid



### PERFORMANCE RANGE

The performance curves are based on kinematic viscosity values = 1 mm<sup>2</sup>/s and density equal to 1000 kg/m<sup>3</sup>. Curve tolerance according to ISO 9906.

### GRAPHIC SELECTION TABLE

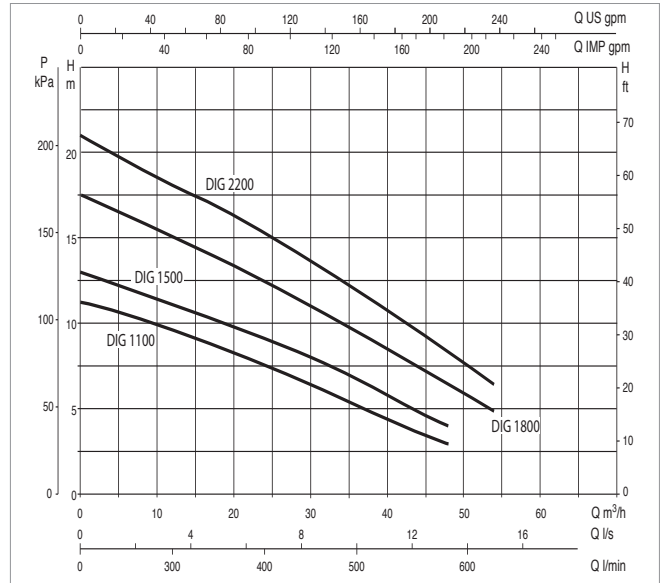
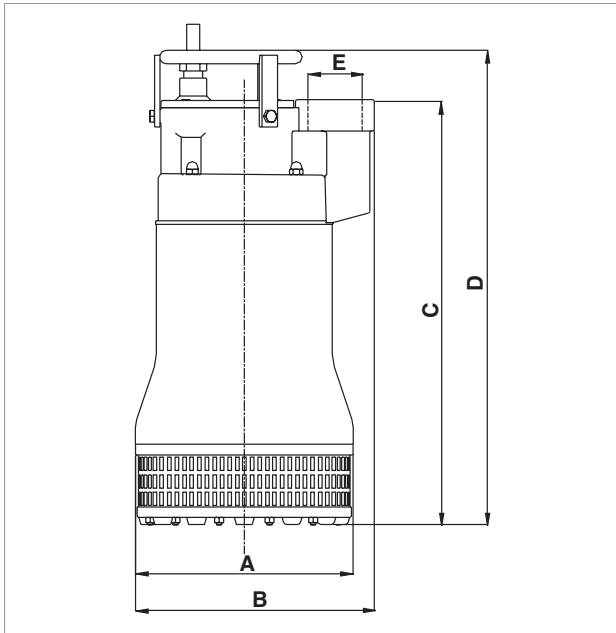


### SELECTION TABLE - DIG 1100 - 1500 - 1800 - 2200

MODEL	Q= m <sup>3</sup> /h																
	0	6	12	18	24	30	36	42	48	54	60	72	84	96	108	120	132
	Q= l/min																
	0	100	200	300	400	500	600	700	800	900	1000	1200	1400	1600	1800	2000	2200
DIG 1100 M-T	11.3	10.6	9.6	8.5	7.4	6.5	5.3	3.8	3.0								
DIG 1500 T	13		11.0	10.0	9.0	8.0	6.8	5.3	4.0								
DIG 1800 T	17.6		15.0	13.8	12.5	11.0	9.4	8.1	6.3	4.9							
DIG 2200 T	20.1		16.8	15.2	14.1	12.4	10.6	9.1	7.4	5.9							

## DIG 1100 - 1500 - 1800 - 2200 - SUBMERSIBLE PUMPS FOR DRAINING CLEAR WATER CONTAINING ABRASIVE SUBSTANCES

Liquid temperature range: from 0 °C to +35 °C



The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

MODEL	ELECTRICAL DATA						
	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		In A	CAPACITOR	
			kW	HP		µF	Vc
DIG 1100 MA	1 x 230V ~	1.7	1.1	1.5	7.8	25	450
DIG 1100 M-NA	1 x 230V ~	1.7	1.1	1.5	7.8	25	450
DIG 1100 T-NA	1 x 230V ~	1.7	1.1	1.5	3	-	-
DIG 1500 T-NA	1 x 230V ~	2.4	1.5	2	4.3	-	-
DIG 1800 T-NA	1 x 230V ~	3.2	1.8	2.4	5.3	-	-
DIG 2200 T-NA	1 x 230V ~	4.0	2.2	3	6.4	-	-

MODEL	A	B	C	D	E DNM	FREE PASSAGE mm	PACKING DIMENSIONS			VOLUME (m³)	WEIGHT kg
							L/A	L/B	H		
DIG 1100 MA	250	270	480	530	2 1/2" - F	6	400	400	750	0.12	34
DIG 1100 M-NA	250	270	480	530	2 1/2" - F	6	400	400	750	0.12	34
DIG 1100 T-NA	250	270	480	530	2 1/2" - F	6	400	400	750	0.12	34
DIG 1500 T-NA	250	270	480	530	2 1/2" - F	6	400	400	750	0.12	35
DIG 1800 T-NA	250	270	480	530	2 1/2" - F	6	400	400	750	0.12	36
DIG 2200 T-NA	250	270	480	530	2 1/2" - F	6	400	400	750	0.12	37