



## Помпа потопяема дренажна за фекални и отпадни води City Pumps TITAN 20/50

### RANGE OF PERFORMANCE

Flow rate up to 1200 l/min (72 m<sup>3</sup>/h)  
Head up to 16 m

### LIMITS OF USE

Depth up to 10 m  
Liquid temperature up to + 40°C  
Passage of solid bodies max Ø 50 mm for  
TITAN 15-20-30/50  
Passage of solid bodies max Ø 70 mm for  
TITAN 15-20-30/70  
For continuous duty: minimum immer-  
sion 420 mm from pump base

### INSTALLATION AND USE

TITAN SERIES PUMPS ARE MADE OF EXCEP-  
TIONALLY ROBUST HEAVY-GAUGE CAST IRON,  
RESISTANT TO ABRASION AND LONG-LASTING,  
AND HAVE A VORTEX TYPE IMPELLER. THEY  
ARE SUITABLE FOR SEWAGE, WASTE WATER  
AND SLUDGE, INCLUDING WATER CONTAINING  
SOLIDS OR MUD. THEY ARE IDEAL FOR SEWAGE  
INSTALLATION, TUNNELS AND OTHER EXCAVA-  
TIONS, UNDERGROUND CARPARKS AND SIMILAR  
APPLICATIONS.

**GUARANTEE 2 YEARS** subject to our general  
terms of sale.

### CONSTRUCTION CHARACTERISTICS

- PUMP BODY, MOTOR CASING: cast iron.
- IMPELLER: cast iron.

- **BASE:** stainless steel AISI 304.
  - **MOTOR SHAFT:**  
vortex, stainless steel EN 10088-3 - 1.4057.
  - **DOUBLE SEAL:**  
mechanical seal **silicon carbide - widia -NBR**,  
with oil barrier chamber and inner lip seal to  
protect the seal in the event of dry running.
  - **MOTOR:** submersible asynchronous, 2 pole, for  
continuous duty.
- TITAN M:** single-phase 220÷240 V - 50 Hz Models  
up to 1.5 kW have built in thermal protection  
2.2 kW single-phase versions have a thermal  
protector provided in the winding for connection  
to the control box.
- TITAN:** three-phase 380÷415 V - 50 Hz.  
Thermal protectors are provided in the winding  
for connection to the external control panel
- **INSULATION:** class F.
  - **PROTECTION:** IP 68.

### STANDARD FEATURES:

- TITAN M** (single-phase)
- Float switch.
  - **10 metres** "H07 RN-F" submersible power cable  
with Schuko plug.
  - 1.1 to 1.5 kW models are supplied with control box  
with capacitor and manual reset motor protector.  
2.2 kW models are supplied with control box type  
QES 300 MONO.
- TITAN** (three-phase)
- **10 metres** "H07 RN-F" neoprene power cable



### OPTIONS ON REQUEST

- ⇒ control box for three-phase pumps
- ⇒ dual voltage: 230/400 V or 400/690 V
- ⇒ single-phase versions without float switch
- ⇒ other voltages or frequency 60 Hz

### CONSTRUCTION AND SAFETY STANDARDS

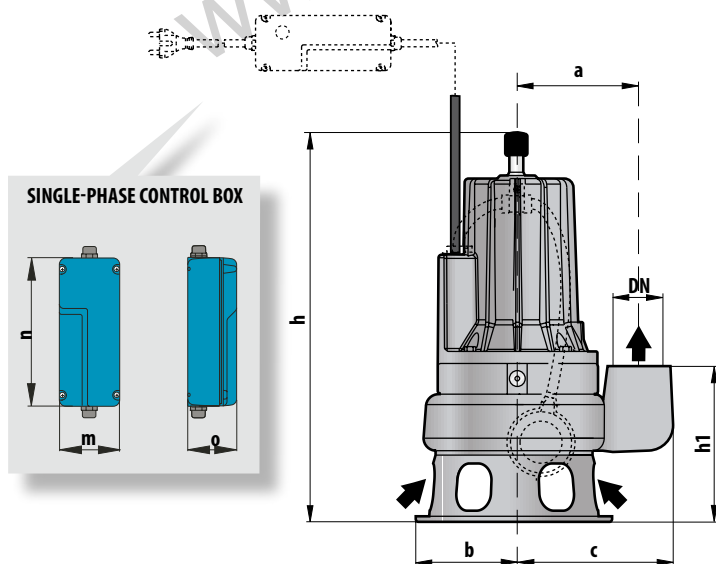
EN 60034-1

IEC 34-1

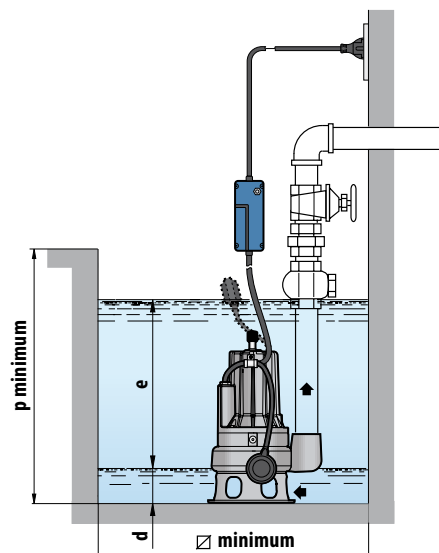
CEI 2-3



## DIMENSIONS



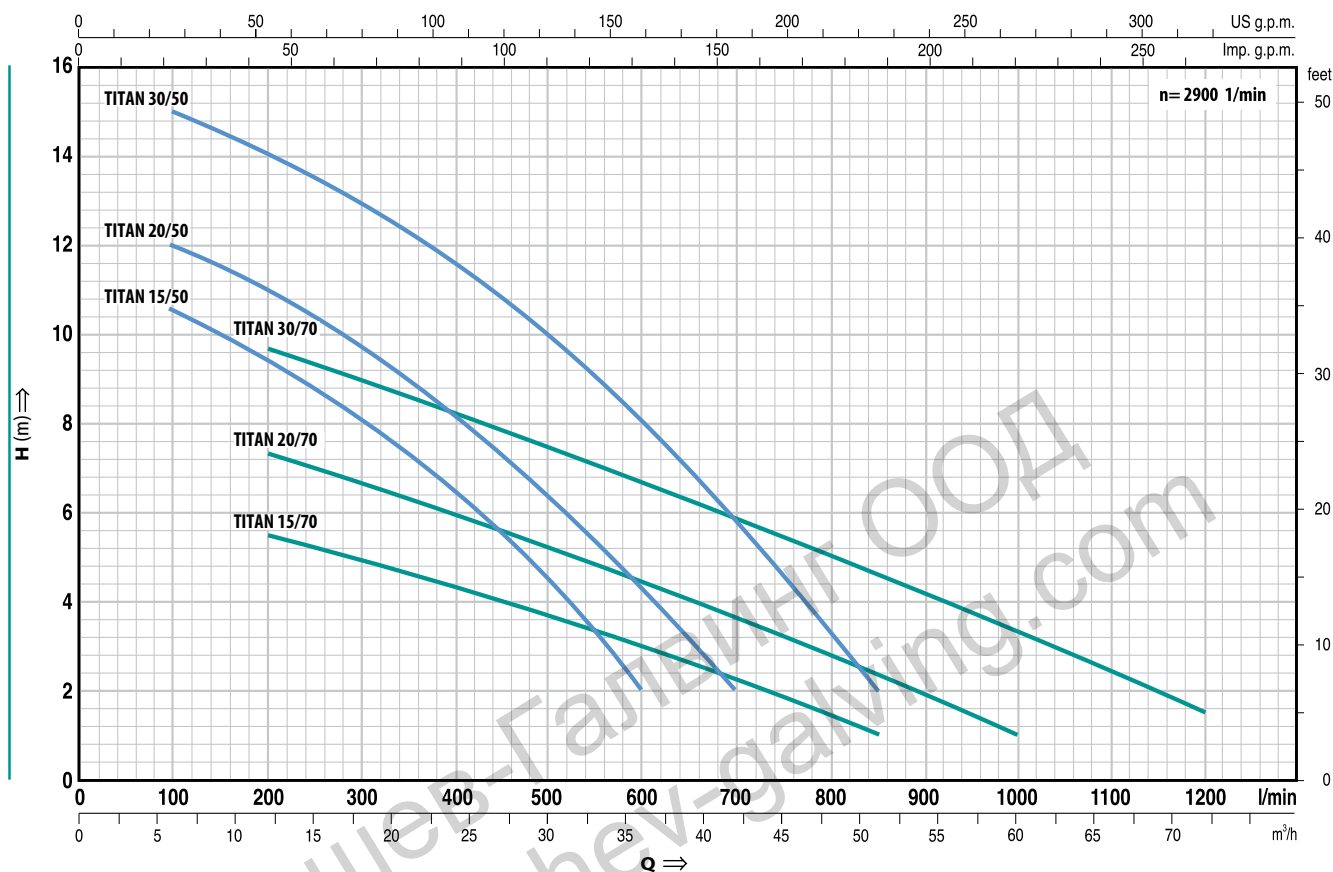
### Typical single-phase installation





## TITAN 50-70

VORTEX submersible pumps



TYPE		POWER		m³/h l/min	0	6	12	18	21	24	30	36	42	48	51	54	60	66	72
Single-phase	Three-phase	kW	HP		0	100	200	300	350	400	500	600	700	800	850	900	1000	1100	1200
TITAN 15/50M	TITAN 15/50	1.1	1.5	H metres	11.5	10.5	9.5	8.2	7.2	6.5	4.5	2							
TITAN 20/50M	TITAN 20/50	1.5	2		13	12	11	9.5	9	8	6.5	4.5	2						
TITAN 30/50M	TITAN 30/50	2.2	3		16	15	14	13	12.3	11.5	10	8	5.9	3.3	2				
TITAN 15/70M	TITAN 15/70	1.1	1.5		6.5	---	5.5	5	4.7	4.4	3.7	3	2.2	1.5	1				
TITAN 20/70M	TITAN 20/70	1.5	2		8.5	---	7.4	6.7	6.3	6	5.2	4.5	3.6	2.8	2.4	2	1		
TITAN 30/70M	TITAN 30/70	2.2	3		11	---	9.7	9	8.6	8.2	7.5	6.7	5.8	5	4.6	4.2	3.3	2.5	1.5

## DIMENSIONS AND WEIGHTS

TYPE		PORT DN	passage of solid bodies	DIMENSIONS mm												kg	
Single-phase	Three-phase			a	b	c	h	h1	m	n	o	d	e	p	∅	1~	3~
TITAN 15/50M	TITAN 15/50	2 1/2"	Ø 50 mm	162	135	212	490	188	81	200	85	75	adjust- able	800	800	33.3	31.0
TITAN 20/50M	TITAN 20/50						500/490									34.8	33.3
TITAN 30/50M	TITAN 30/50															40.7	34.8
TITAN 15/70M	TITAN 15/70	3"	Ø 70 mm	180	150	240	530	230	81	200	85	85	adjust- able	800	800	38.9	36.6
TITAN 20/70M	TITAN 20/70						540/530									40.8	38.9
TITAN 30/70M	TITAN 30/70															47.0	41.1