

## Submersible pumps in stainless steel

-  Sewage water
-  Domestic use
-  Civil use
-  Industrial use



### PERFORMANCE RANGE

- Flow rate up to **650 l/min** (39 m<sup>3</sup>/h)
- Head up to **15 m**

### APPLICATION LIMITS

- **5 m** maximum immersion depth
- Maximum liquid temperature **+40 °C**
- Passage of solids:
  - up to **Ø 40 mm** for VX /35-ST
  - up to **Ø 50 mm** for VX /50-ST
- Minimum immersion depth for continuous service:
  - **280 mm** for VX /35-ST
  - **300 mm** for VX /50-ST

### CONSTRUCTION AND SAFETY STANDARDS

- **10 m** long power cable
- Float switch for single-phase versions

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

The **VX-ST** submersible pumps in stainless steel are recommended for draining **sewage water** in domestic, civil and industrial applications, in every case where there are solid bodies in suspension, for example water mixed with mud, groundwater, surface water. They are suitable for draining flooded areas such as cellars, underground car parks, car washes, for emptying cesspools and for sewage disposal. These pumps distinguish themselves for their reliability, which can be best appreciated under automatic operating conditions in fixed installations.

### PATENTS - TRADE MARKS - MODELS

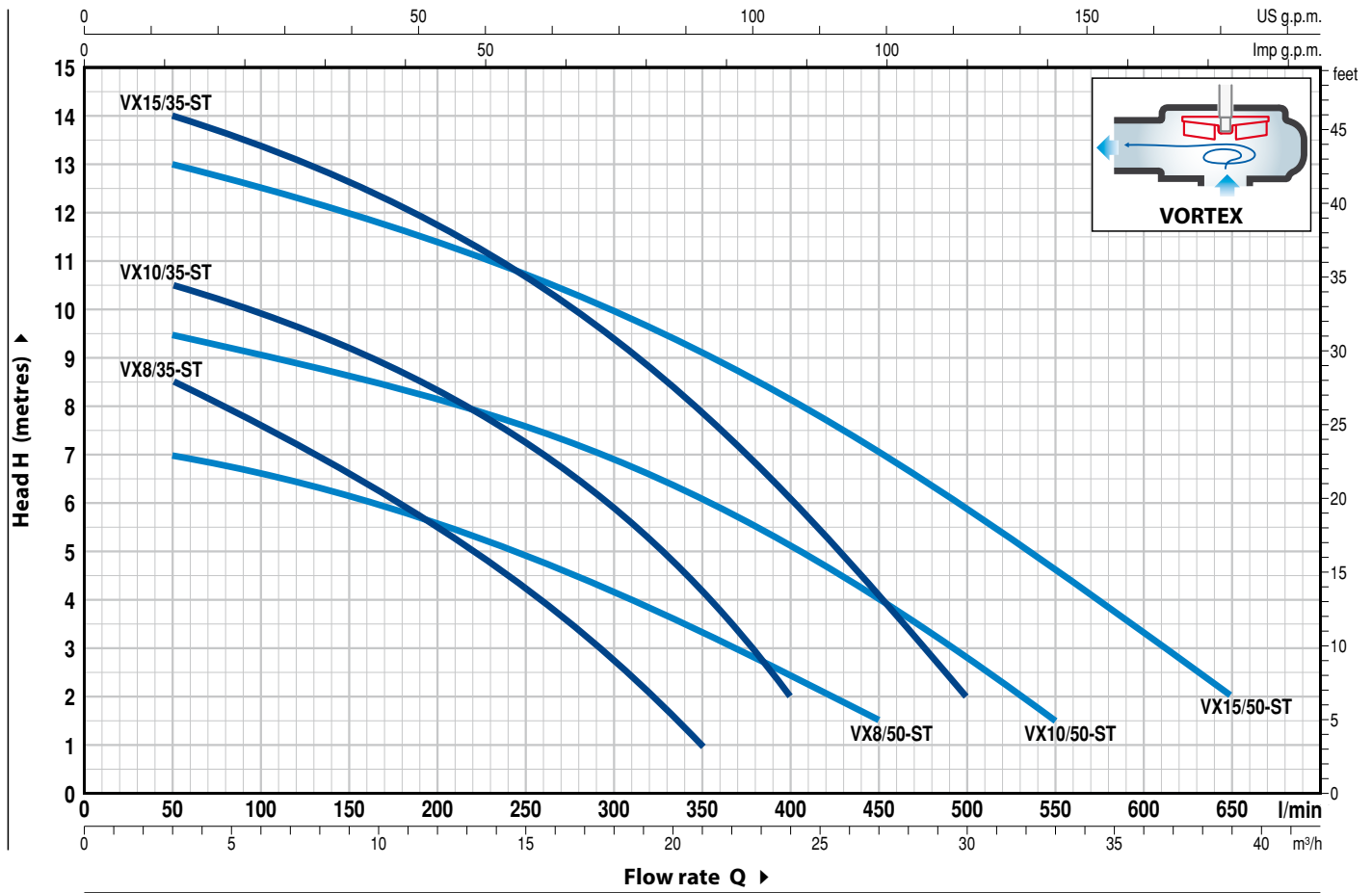
- Patent n° EP2313658
- Patent Pending n° BO2015A000116

### OPTIONS AVAILABLE ON REQUEST

- Single-phase pumps without float switch
- AISI 316L stainless steel pump shaft
- Other voltages or 60 Hz frequency

### CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min<sup>-1</sup>



MODEL		POWER (P <sub>2</sub> )		Q	Flow rate															
Single-phase	Three-phase	kW	HP		m <sup>3</sup> /h	0	3	6	12	18	21	24	27	30	33	36	39			
				l/min	0	50	100	200	300	350	400	450	500	550	600	650				
VXm 8/35 -ST	VX 8/35 -ST	0.55	0.75	H metres	9.5	8.5	7.5	5.4	2.7	1										
VXm 10/35 -ST	VX 10/35 -ST	0.75	1		11.5	10.5	10	8.3	6	4	2									
VXm 15/35 -ST	VX 15/35 -ST	1.1	1.5		15	14	13.5	11.7	9.2	7.7	6	4.1	2							
VXm 8/50 -ST	VX 8/50 -ST	0.55	0.75		7.5	7	6.6	5.7	4.2	3.5	2.5	1.5								
VXm 10/50 -ST	VX 10/50 -ST	0.75	1		10	9.5	9.2	8.5	7	6	5	3.8	2.7	1.5						
VXm 15/50 -ST	VX 15/50 -ST	1.1	1.5		13.5	13	12.5	11.5	10	9	8	7	6	4.7	3.3	2				

Q = Flow rate H = Total manometric head

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

## POS. COMPONENT CONSTRUCTION CHARACTERISTICS

<b>1 PUMP BODY</b>	Stainless steel AISI 304 with threaded port in compliance with ISO 228/1				
<b>2 BASE</b>	Stainless steel AISI 304				
<b>3 IMPELLER</b>	Stainless steel AISI 304 VORTEX type				
<b>4 MOTOR CASING</b>	Stainless steel AISI 304				
<b>5 MOTOR CASING PLATE</b>	Stainless steel AISI 304				
<b>6 MOTOR SHAFT</b>	Stainless steel AISI 431				
<b>7 SHAFT WITH DOUBLE MECHANICAL SEAL SEPARATED BY AN OIL CHAMBER</b>					
<b>Seal</b>	<b>Shaft</b>	<b>Position</b>	<b>Materials</b>		
<b>Model</b>	<b>Diameter</b>		<b>Stationary ring</b>	<b>Rotational ring</b>	<b>Elastomer</b>
<b>MG1-14D SIC</b>	<b>Ø 14 mm</b>	Motor side	Silicon carbide	Graphite	NBR
		Pump side	Silicon carbide	Silicon carbide	NBR
<b>8 BEARINGS</b>	<b>6203 ZZ / 6203 ZZ</b>				

### 9 CAPACITOR

<b>Pump</b>	<b>Capacitance</b>	
<i>Single-phase</i>	<i>(220-230 V or 240 V)</i>	<i>(110 V)</i>
VXm 8/35 -ST	20 µF 450 VL	30 µF - 250 VL
VXm 8/50 -ST		
VXm 10/35-ST		
VXm 10/50-ST	25 µF 450 VL	-
VXm 15/35-ST		
VXm 15/50-ST		

### 10 ELECTRIC MOTOR

**VXm:** single-phase 220-230 V - 50 Hz  
with thermal overload protector incorporated into the winding

**VX:** three-phase 400 V - 50 Hz

- Insulation: class F
- Protection: IP X8

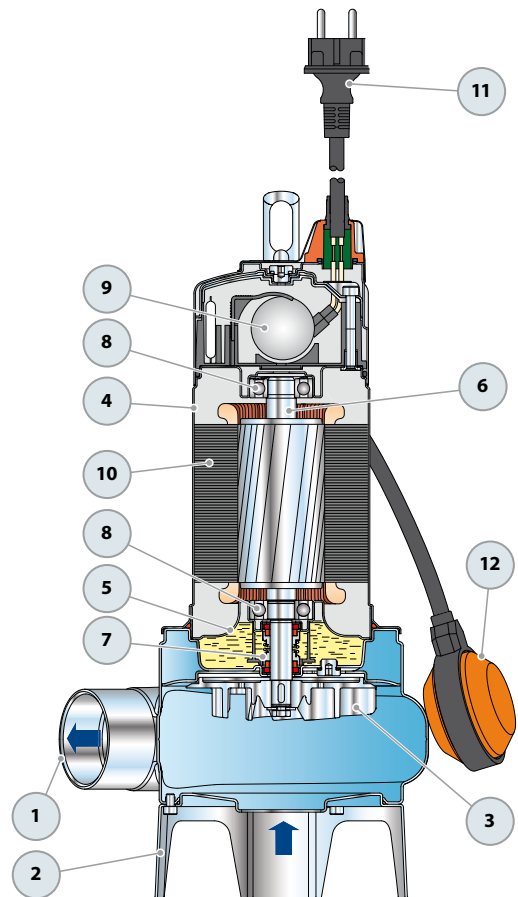
### 11 POWER CABLE

"H07 RN-F" type  
(with Schuko plug for single-phase versions only)

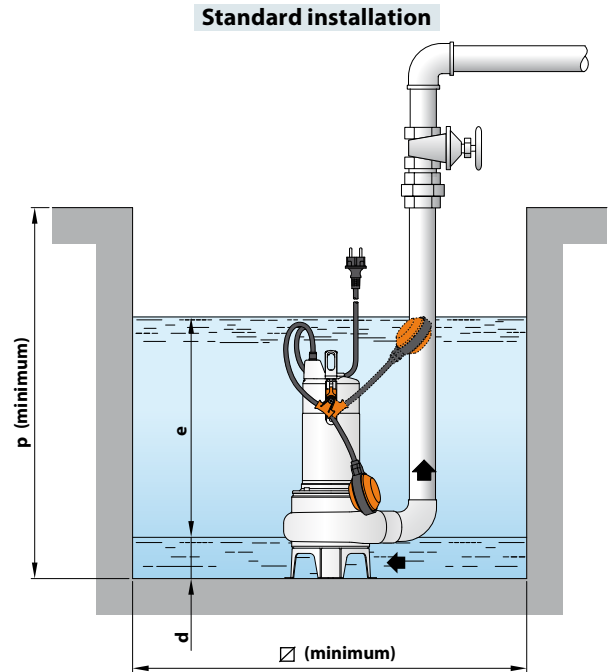
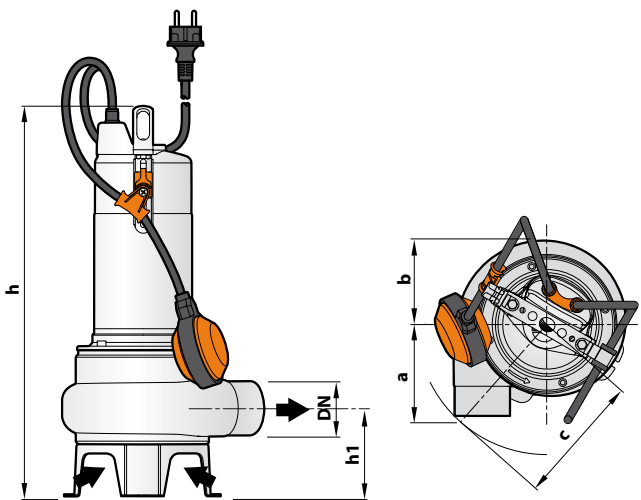
**Standard length 10 metres**

### 12 FLOAT SWITCH

(only for single-phase versions)



## DIMENSIONS AND WEIGHT



MODEL		PORT DN	Passage of solids	DIMENSIONS mm									kg	
Single-phase	Three-phase			a	b	c	h	h1	d	e	p	Ø	1~	3~
VXm 8/35 -ST	VX 8/35 -ST	1½"	Ø 40 mm	95	95	140	406	87	50	variable	500	500	10.3	10.0
VXm 10/35 -ST	VX 10/35 -ST						421						11.1	10.0
VXm 15/35 -ST	VX 15/35 -ST						430						13.1	12.1
VXm 8/50 -ST	VX 8/50 -ST	2"	Ø 50 mm	102	95	145	430	102	60	variable	500	500	10.4	10.1
VXm 10/50 -ST	VX 10/50 -ST						445						11.2	10.1
VXm 15/50 -ST	VX 15/50 -ST						445						13.2	12.2

## ABSORPTION

MODEL	VOLTAGE		
	230 V	240 V	110 V
<b>Single-phase</b>	230 V	240 V	110 V
VXm 8/35 -ST	3.5 A	3.4 A	7.0 A
VXm 10/35 -ST	4.8 A	4.6 A	9.6 A
VXm 15/35 -ST	7.4 A	7.1 A	-
VXm 8/50 -ST	3.7 A	3.5 A	7.4 A
VXm 10/50 -ST	5.0 A	4.8 A	10.0 A
VXm 15/50 -ST	7.1 A	6.8 A	-

MODEL	VOLTAGE			
	230 V	400 V	240 V	415 V
<b>Three-phase</b>	230 V	400 V	240 V	415 V
VX 8/35 -ST	3.0 A	1.7 A	2.9 A	1.65 A
VX 10/35 -ST	3.5 A	2.0 A	3.4 A	1.95 A
VX 15/35 -ST	5.2 A	3.0 A	5.0 A	2.9 A
VX 8/50 -ST	3.2 A	1.8 A	3.1 A	1.75 A
VX 10/50 -ST	3.5 A	2.0 A	3.4 A	1.95 A
VX 15/50 -ST	5.2 A	3.0 A	5.0 A	2.9 A

## PALLETIZATION

MODEL		GROUPAGE n. pumps	CONTAINER n. pumps
Single-phase	Three-phase		
VXm 8/35 -ST	VX 8/35 -ST	60	80
VXm 10/35 -ST	VX 10/35 -ST	60	80
VXm 15/35 -ST	VX 15/35 -ST	54	72
VXm 8/50 -ST	VX 8/50 -ST	54	72
VXm 10/50 -ST	VX 10/50 -ST	54	72
VXm 15/50 -ST	VX 15/50 -ST	54	72