

Submersible pumps in stainless steel

 Sewage water

 Domestic use

 Civil use

 Industrial use



PERFORMANCE RANGE

- Flow rate up to **650 l/min** (39 m³/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



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

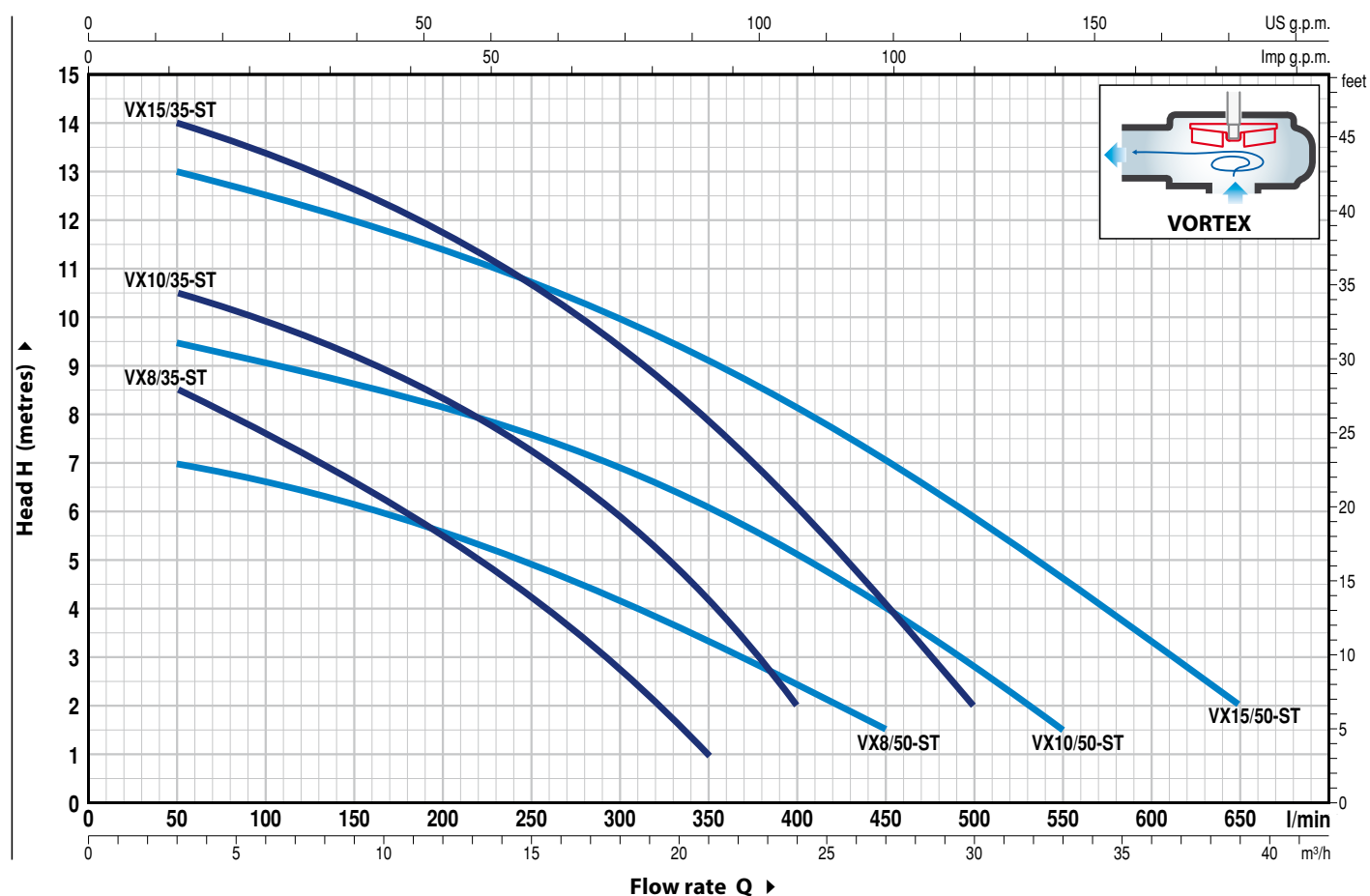
- Patent n. EP2313658
- Patent n. IT0001428923

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⁻¹



MODEL		POWER (P ₂)		Q	m ³ /h	0	3	6	12	18	21	24	27	30	33	36	39
Single-phase	Three-phase	kW	HP		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	

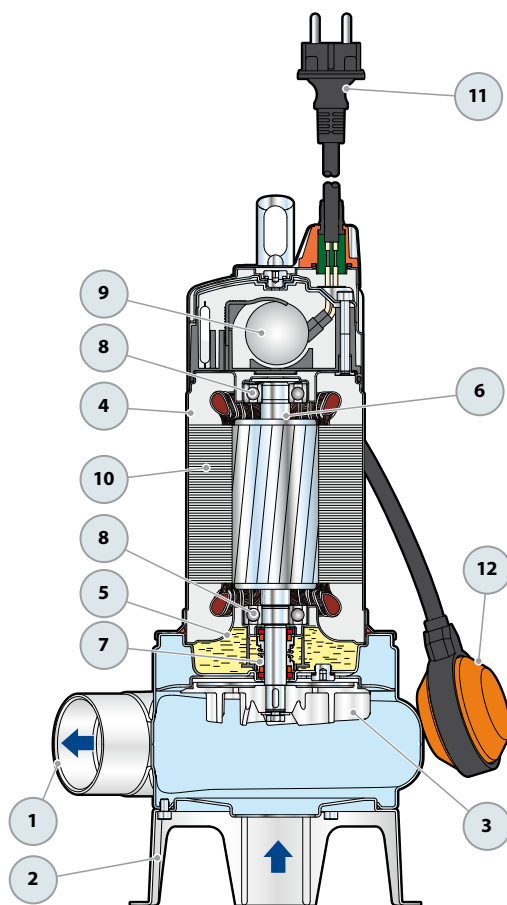
Q = Flow rate H = Total manometric head

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

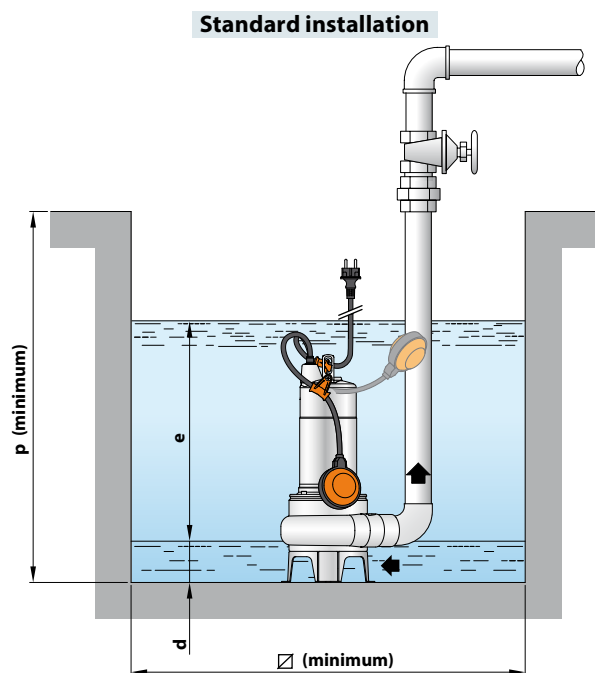
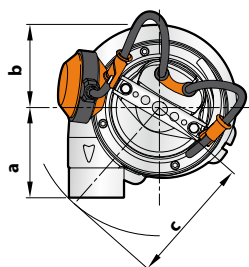
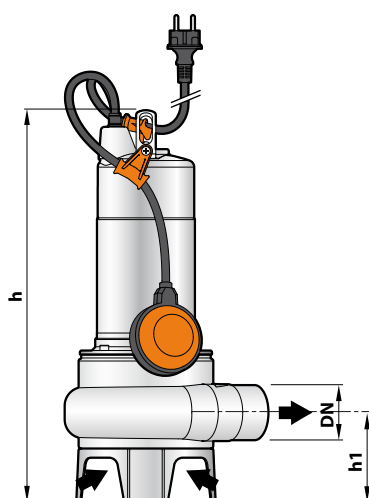
POS. COMPONENT CONSTRUCTION CHARACTERISTICS

1	PUMP BODY	Stainless steel AISI 304 with threaded port in compliance with ISO 228/1				
2	BASE	Stainless steel AISI 304				
3	IMPELLER	Stainless steel AISI 304 VORTEX type				
4	MOTOR CASING	Stainless steel AISI 304				
5	MOTOR CASING PLATE	Stainless steel AISI 304				
6	MOTOR SHAFT	Stainless steel AISI 431				
7	SHAFT WITH DOUBLE MECHANICAL SEAL SEPARATED BY AN OIL CHAMBER					
Seal		Shaft	Position	Materials		
Model	Diameter			Stationary ring	Rotational ring	Elastomer
MG1-14D SIC	Ø 14 mm	Motor side		Silicon carbide	Graphite	NBR
		Pump side		Silicon carbide	Silicon carbide	NBR
8	BEARINGS	6203 ZZ / 6203 ZZ				
9	CAPACITOR					
Pump		Capacitance				
Single-phase	(230 V or 240 V)	(110 V)				
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 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)						

The diagram illustrates the internal components of a submersible pump assembly. The parts are numbered as follows: 1. Pump body (bottom left); 2. Base (bottom); 3. Impeller (bottom right); 4. Motor casing (middle left); 5. Motor casing plate (middle left, below 4); 6. Motor shaft (middle right); 7. Shaft with double mechanical seal (middle right, below 6); 8. Bearings (middle right, above 7); 9. Capacitor (top left); 10. Electric motor (top left, below 9); 11. Power cable (top right); 12. Float switch (top right, below 11). The diagram shows the pump body at the bottom, with the impeller mounted on the motor shaft. The motor shaft is supported by bearings and sealed by a double mechanical seal. The motor casing and motor casing plate are shown above the motor shaft. The capacitor is connected to the electric motor. The power cable is connected to the motor. The float switch is connected to the power cable.



DIMENSIONS AND WEIGHT



MODEL		PORT DN	Passage of solids	DIMENSIONS mm									kg	
Single-phase	Three-phase			a	b	c	h	h1	d	e	p	□	1~	3~
VXm 8/35 -ST	VX 8/35 -ST	1½"	Ø 40 mm	95	95	140	406	87	50	variable	500	500	10.6	10.6
VXm 10/35 -ST	VX 10/35 -ST						421						11.6	10.7
VXm 15/35 -ST	VX 15/35 -ST						421						13.0	11.9
VXm 8/50 -ST	VX 8/50 -ST	2"	Ø 50 mm	102	95	140	432	102	60	variable	500	500	11.0	10.8
VXm 10/50 -ST	VX 10/50 -ST						447						11.0	10.8
VXm 15/50 -ST	VX 15/50 -ST						447						13.1	12.1

ABSORPTION

MODEL	VOLTAGE		
	230 V	240 V	110 V
Single-phase			
VXm 8/35 -ST	3.5 A	3.4 A	7.0 A
VXm 10/35 -ST	4.8 A	4.8 A	9.6 A
VXm 15/35 -ST	7.4 A	7.1 A	-
VXm 8/50 -ST	3.7 A	3.7 A	7.4 A
VXm 10/50 -ST	5.0 A	4.8 A	11.0 A
VXm 15/50 -ST	7.1 A	7.0 A	-

MODEL	VOLTAGE			
	230 V	400 V	240 V	415 V
Three-phase				
VX 8/35 -ST	2.9 A	1.7 A	2.8 A	1.6 A
VX 10/35 -ST	3.5 A	2.0 A	3.3 A	1.9 A
VX 15/35 -ST	5.2 A	3.0 A	5.0 A	2.9 A
VX 8/50 -ST	3.1 A	1.8 A	2.9 A	1.7 A
VX 10/50 -ST	3.6 A	2.1 A	3.5 A	2.0 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

Submersible pumps in stainless steel

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



PERFORMANCE RANGE

- Flow rate up to **750 l/min** (45 m³/h)
- Head up to **15 m**

APPLICATION LIMITS

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

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



INSTALLATION AND USE

BC-ST submersible pumps in stainless steel are recommended for draining **dirty and sewage water** in domestic, civil and industrial applications. They come equipped with a **DOUBLE-CHANNEL** impeller and are capable of pumping liquids containing short fibred suspended solids up to Ø 50 mm. They are ideal for pumping sewage, waste water, surface water and water mixed with mud in locations such as blocks of flats and detached houses. These pumps distinguish themselves for their reliability, which can be best appreciated under automatic operating conditions in fixed installations.

PATENTS - TRADE MARKS - MODELS

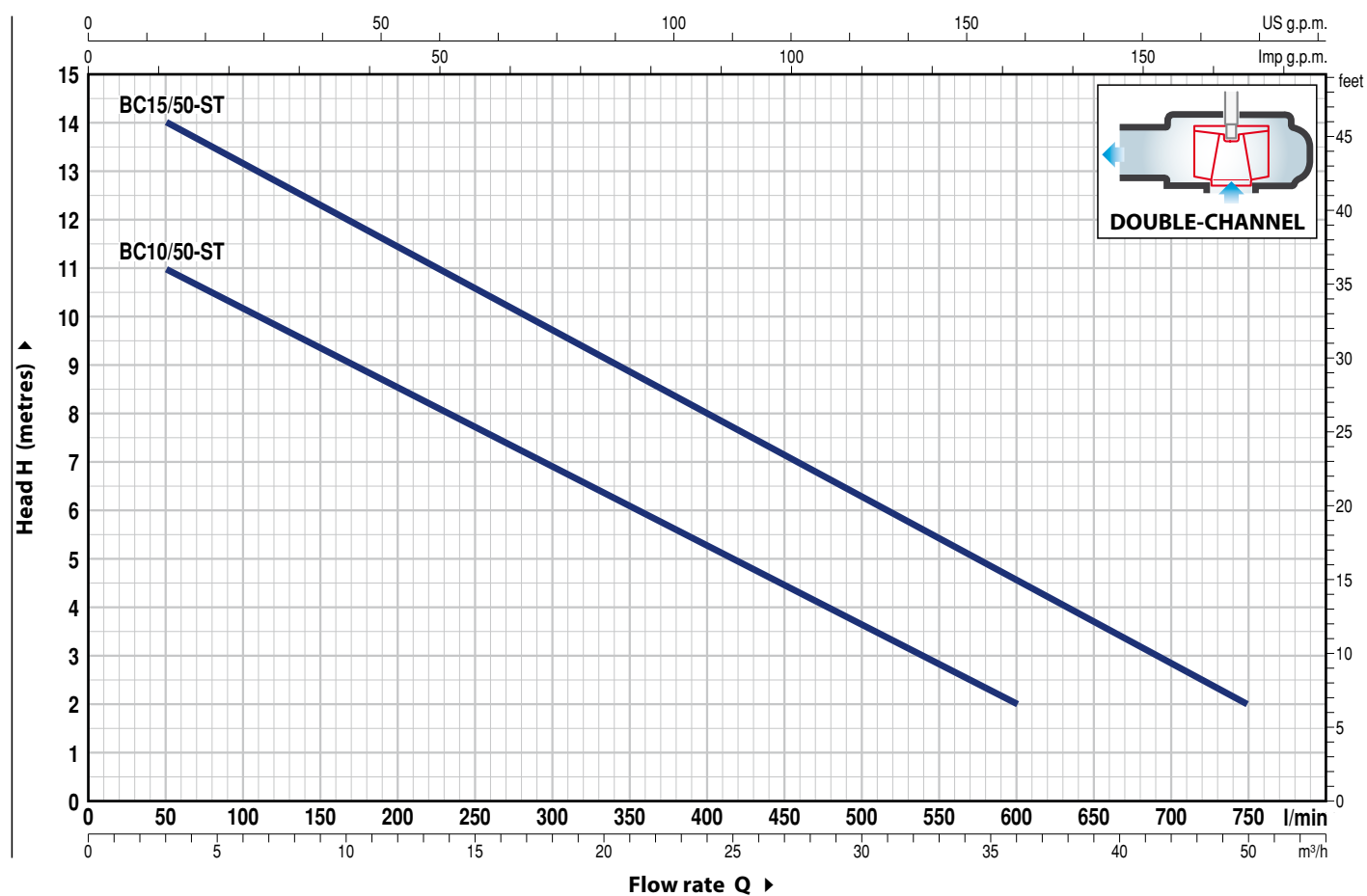
- Patent n. EP2313658
- Patent n. IT0001428923

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⁻¹



MODEL		POWER (P ₂)		Q	0	3	6	12	18	24	30	36	42	45
Single-phase	Three-phase	kW	HP		0	50	100	200	300	400	500	600	700	750
BCm 10/50-ST	BC 10/50-ST	0.75	1	H metres	12	11	10	8.5	7	5	3.6	2		
BCm 15/50-ST	BC 15/50-ST	1.1	1.5		15	14	13	11.5	9.7	8	6.3	4.6	2.9	2

Q = Flow rate H = Total manometric head

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

POS. COMPONENTCONSTRUCTION CHARACTERISTICS

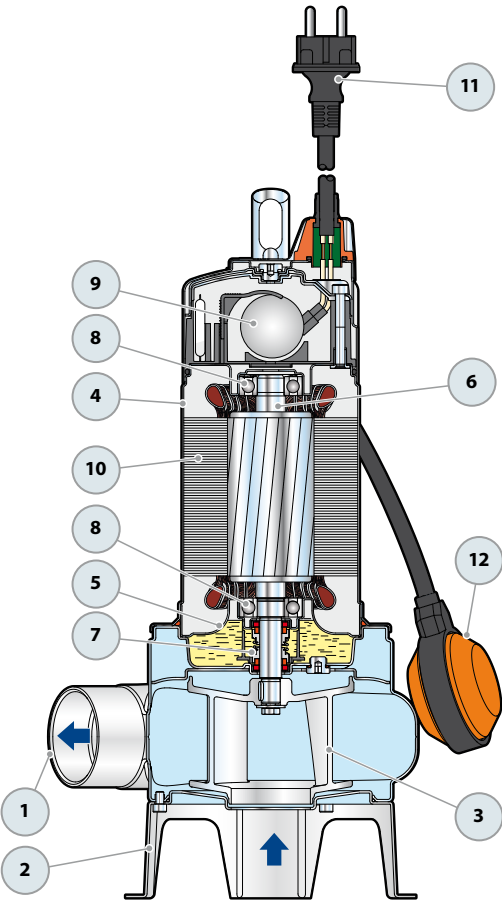
1	PUMP BODY	Stainless steel AISI 304 with threaded port in compliance with ISO 228/1			
2	BASE	Stainless steel AISI 304			
3	IMPELLER	Precision cast stainless steel AISI 304 DOUBLE-CHANNEL type			
4	MOTOR CASING	Stainless steel AISI 304			
5	MOTOR CASING PLATE	Stainless steel AISI 304			
6	MOTOR SHAFT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

9	CAPACITOR		
<i>Pump</i>	<i>Capacitance</i>		
<i>Single-phase</i>	<i>(230 V or 240 V)</i>	<i>(110 V)</i>	
BCm 10/50-ST	20 µF 450 VL	30 µF - 250 VL	
BCm 15/50-ST	25 µF 450 VL	–	

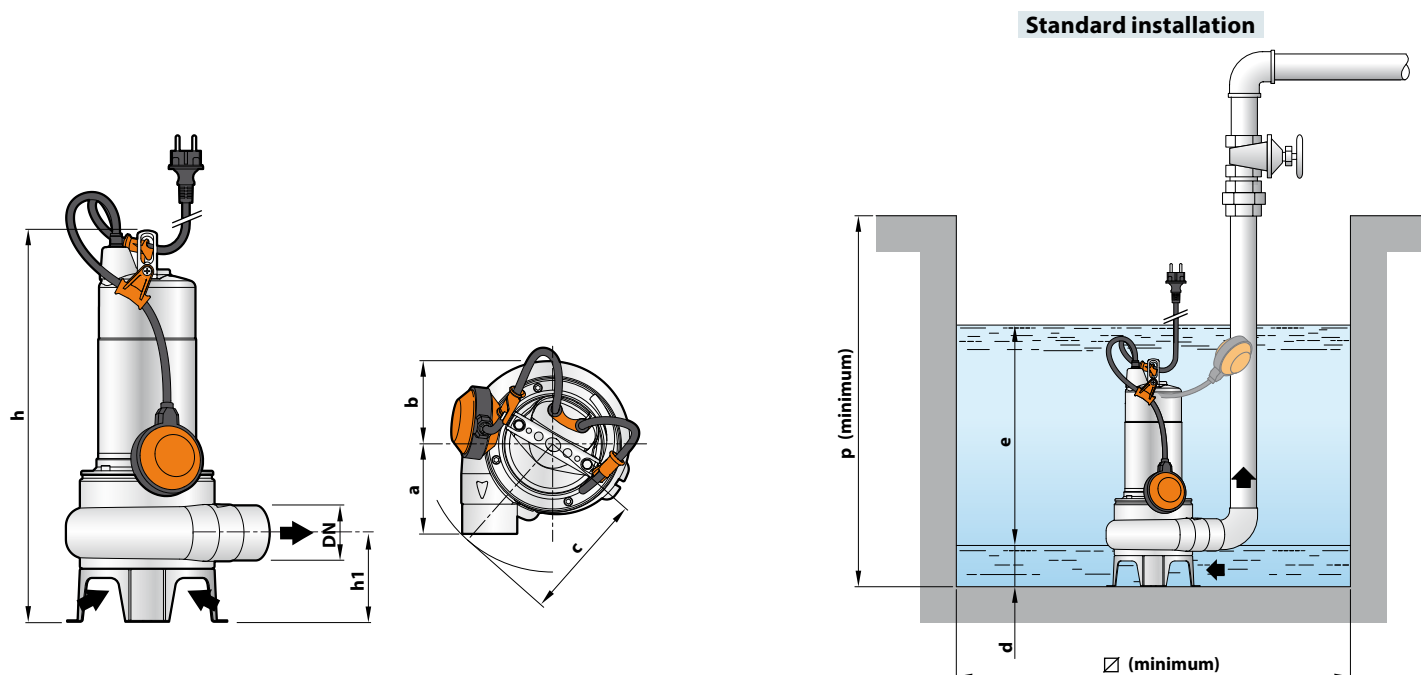
- 10 ELECTRIC MOTOR
- BCm: single-phase 230 V - 50 Hz
with thermal overload protector incorporated into the winding
- BC: three-phase 400 V - 50 Hz
- Insulation: class F
 - Protection: IP X8

- 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	□		1~	3~
BCm 10/50-ST	BC 10/50-ST	2"	Ø 50 mm	102	95	140	432	102	60	variable	500	500		12.4	11.2
BCm 15/50-ST	BC 15/50-ST						447							13.3	12.2

ABSORPTION

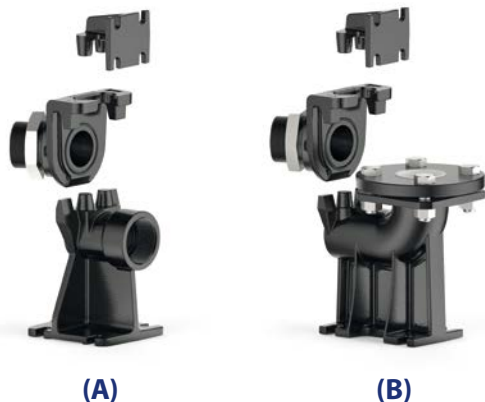
MODEL	VOLTAGE		
	230 V	240 V	110 V
BCm 10/50-ST	5.0 A	4.8 A	10.0 A
BCm 15/50-ST	8.2 A	7.9 A	–

MODEL	VOLTAGE			
	230 V	400 V	240 V	415 V
BC 10/50-ST	3.6 A	2.1 A	3.5 A	2.0 A
BC 15/50-ST	5.5 A	3.2 A	5.4 A	3.1 A

PALLETIZATION

MODEL		GROUPAGE n. pumps	CONTAINER n. pumps
Single-phase	Three-phase		
BCm 10/50-ST	BC 10/50-ST	54	72
BCm 15/50-ST	BC 15/50-ST	54	72

SEWAGE LIFTING SYSTEM VX-ST – BC-ST



A) HORIZONTAL DELIVERY VERSION WITH ¾" GUIDE TUBES

For VX /35-ST	Cod. ASSPVX35ST	DN 2"
For VX /50-ST , BC /50-ST	Cod. ASSPVX50ST	DN 2"

Kit consisting of:

- footing connection
- slide guide with ring nut and seal
- support for the guide tubes

B) VERTICAL DELIVERY VERSION WITH ¾" GUIDE TUBES

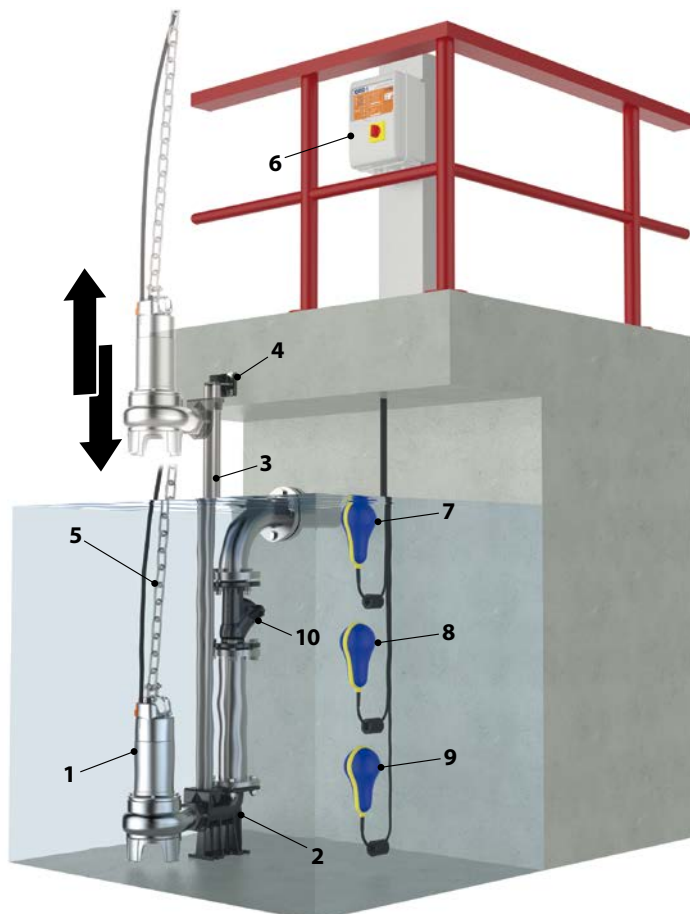
For VX /35-ST	Cod. ASSPVX35STV	DN 2½"
For VX /50-ST, BC /50-ST	Cod. ASSPVX50STV	DN 2½"

Kit consisting of:

- footing connection complete with counterflange
- slide guide with ring nut and seal
- support for the guide tubes

STANDARD INSTALLATION

1. Pump
2. Footing connection
3. Guide tubes
4. Support for the guide tubes
5. Lifting chain
6. Control box
7. Alarm float switch
8. Starting float switch
9. Stop float switch
10. Non-return valve



SLIDE GUIDE (Also to be ordered separately)

For VX /35-ST	Cod. ASSFL005
For VX /50-ST , BC /50-ST	Cod. ASSFL005

Complete with ring nut and seal

● INTERMEDIATE SUPPORT (To be ordered separately)

Cod. 859SV340INTFA	For guide tubes Ø ¾"
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In order to ensure stability, insert the intermediate support every 2 metres

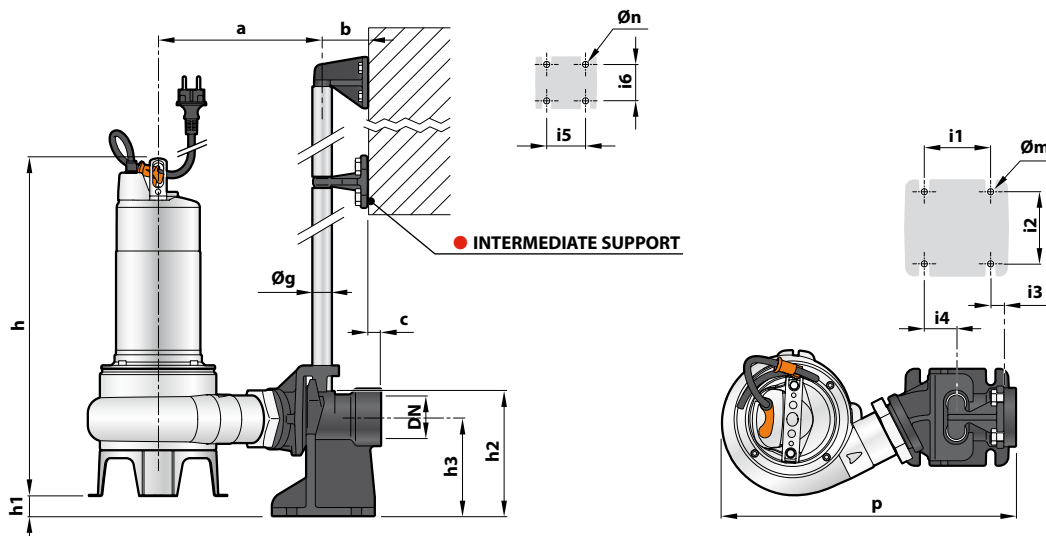


GUIDE TUBES (AISI 304 stainless steel)

Cod. 54SARTG005	Ø ¾"
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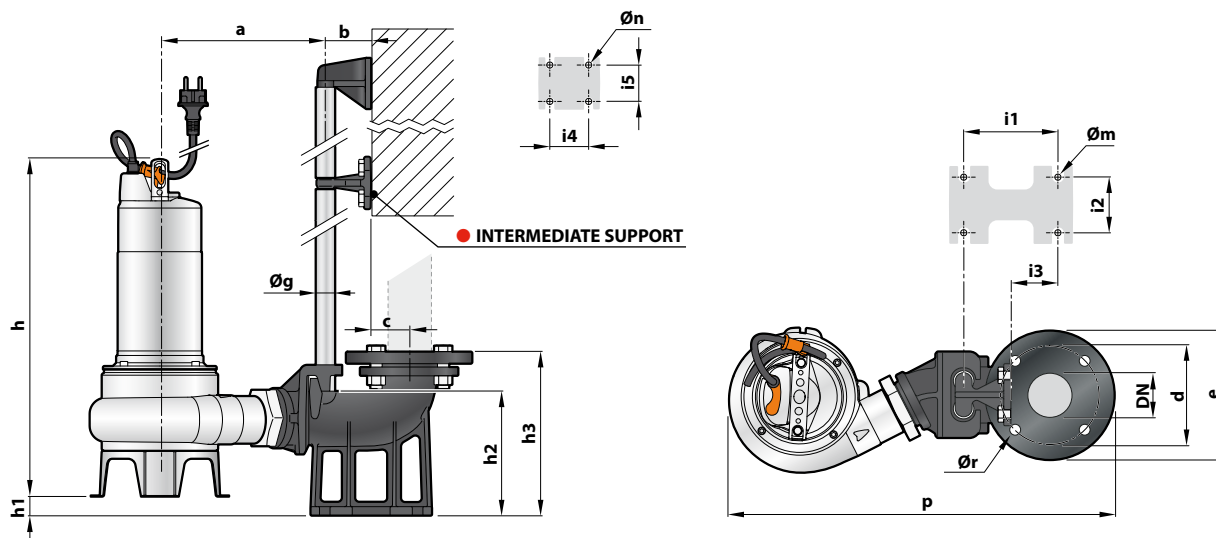
Maximum length of the tube plank: 6 metres

DIMENSIONS (Horizontal delivery version)



MODEL		Passage of solids mm	PORT DN	DIMENSIONS mm																
Single-phase	Three-phase			a	b	c	p	h	h1	h2	h3	i1	i2	i3	i4	i5	i6	Øg	Øm	Øn
VXm 8/35 -ST	VX 8/35 -ST	40	2"	207	61	17	379	406	43											
VXm 10/35 -ST	VX 10/35 -ST							421												
VXm 15/35 -ST	VX 15/35 -ST							430												
VXm 8/50 -ST	VX 8/50 -ST	50	2"	217	61	17	388	445	28	130	165	85	94	16	40	50	48	¾"	12	11
VXm 10/50 -ST	VX 10/50 -ST							430												
VXm 15/50 -ST	VX 15/50 -ST							445												
BCm 10/50 -ST	BC 10/50 -ST							445												
BCm 15/50 -ST	BC 15/50 -ST																			

DIMENSIONS (Vertical delivery version)



MODEL		Passage of solids mm	PORT DN	DIMENSIONS mm																																	
Single-phase	Three-phase			a	b	c	d	e	p	h	h1	h2	h3	i1	i2	i3	i4	i5	Øg	Øm	Øn	Ør															
VXm 8/35 -ST	VX 8/35 -ST	40	2½"	207	61	52	125	165	495	406	40																										
VXm 10/35-ST	VX 10/35-ST									421																											
VXm 15/35-ST	VX 15/35-ST																																				
VXm 8/50 -ST	VX 8/50 -ST	50		217																				507	430	26	164	215	120	72	62	50	48	¾"	14	11	18
VXm 10/50-ST	VX 10/50-ST																								445												
VXm 15/50-ST	VX 15/50-ST																								430												
BCm 10/50 -ST	BC 10/50 -ST																								445												
BCm 15/50-ST	BC 15/50 -ST																																				

Submersible pumps in stainless steel

 Sewage water

 Domestic use

 Civil use

 Industrial use



PERFORMANCE RANGE

- Flow rate up to **650 l/min** (39 m³/h)
- Head up to **14 m**

APPLICATION LIMITS

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

CONSTRUCTION AND SAFETY STANDARDS

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

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CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY



INSTALLATION AND USE

VX-MF 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

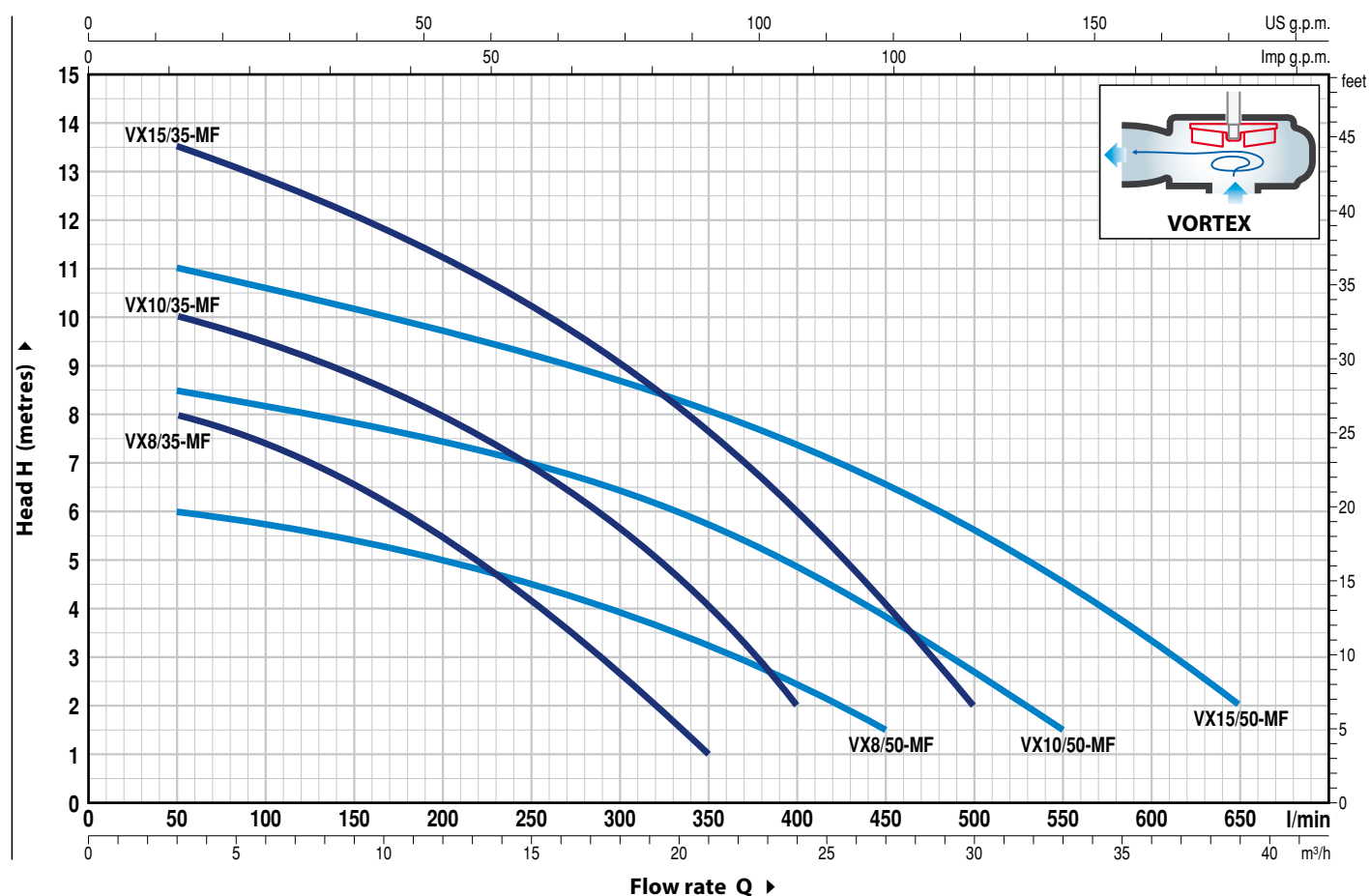
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OPTIONS AVAILABLE ON REQUEST

- Single-phase pumps without float switch
- Other voltages or 60 Hz frequency

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min⁻¹



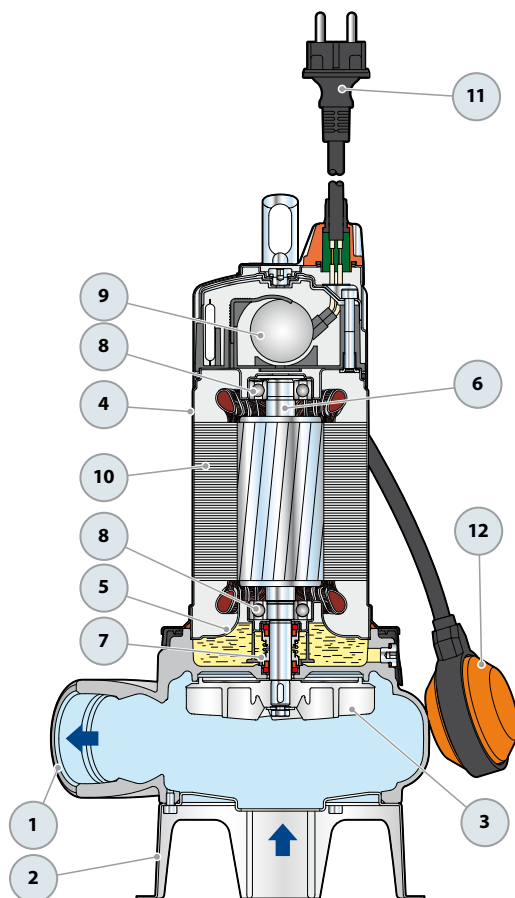
MODEL		POWER (P ₂)		Q													
Single-phase	Three-phase	kW	HP		m³/h	0	3	6	12	18	21	24	27	30	33	36	39
					l/min	0	50	100	200	300	350	400	450	500	550	600	650
VXm 8/35 -MF	VX 8/35 -MF	0.55	0.75	H metres		9	8	7.5	5.5	2.7	1						
VXm 10/35-MF	VX 10/35-MF	0.75	1			11	10	9.5	8	5.7	4	2					
VXm 15/35-MF	VX 15/35-MF	1.1	1.5			14	13.5	12.8	11.2	9	7.7	6	4	2			
VXm 8/50 -MF	VX 8/50 -MF	0.55	0.75			6.5	6	5.8	5	4	3.3	2.5	1.5				
VXm 10/50-MF	VX 10/50-MF	0.75	1			9	8.5	8.2	7.5	6.5	5.8	5	3.8	2.5	1.5		
VXm 15/50-MF	VX 15/50-MF	1.1	1.5			11.5	11	10.5	9.8	8.7	8	7.5	6.5	5.5	4.5	3.5	2

Q = Flow rate H = Total manometric head

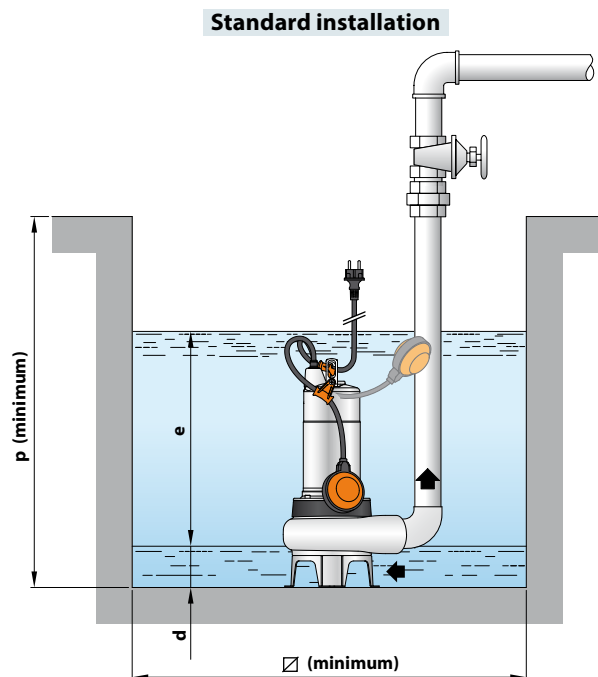
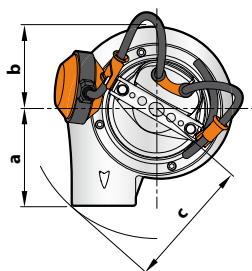
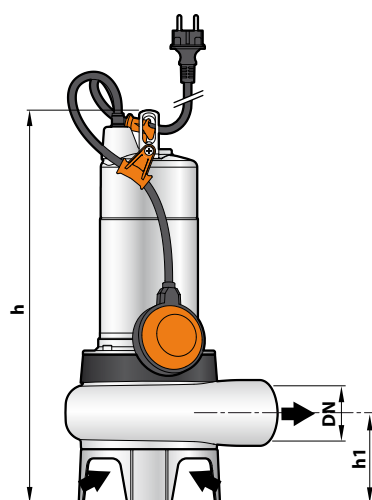
Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

POS. COMPONENT CONSTRUCTION CHARACTERISTICS

1	PUMP BODY	Precision cast stainless steel AISI 316L with threaded port in compliance with ISO 228/1																						
2	BASE	Stainless steel AISI 304																						
3	IMPELLER	Stainless steel AISI 304 VORTEX type																						
4	MOTOR CASING	Stainless steel AISI 304																						
5	MOTOR CASING PLATE	Stainless steel AISI 304																						
6	MOTOR SHAFT	Stainless steel AISI 316L																						
7	SHAFT WITH DOUBLE MECHANICAL SEAL SEPARATED BY AN OIL CHAMBER																							
<table><tr><th>Seal</th><th>Shaft</th><th>Position</th><th colspan="3">Materials</th></tr><tr><th>Model</th><th>Diameter</th><th></th><th>Stationary ring</th><th>Rotational ring</th><th>Elastomer</th></tr><tr><td rowspan="2">MG1-14D SIC</td><td rowspan="2">Ø 14 mm</td><td>Motor side</td><td>Silicon carbide</td><td>Graphite</td><td>NBR</td></tr><tr><td>Pump side</td><td>Silicon carbide</td><td>Silicon carbide</td><td>NBR</td></tr></table>			Seal	Shaft	Position	Materials			Model	Diameter		Stationary ring	Rotational ring	Elastomer	MG1-14D SIC	Ø 14 mm	Motor side	Silicon carbide	Graphite	NBR	Pump side	Silicon carbide	Silicon carbide	NBR
Seal	Shaft	Position	Materials																					
Model	Diameter		Stationary ring	Rotational ring	Elastomer																			
MG1-14D SIC	Ø 14 mm	Motor side	Silicon carbide	Graphite	NBR																			
		Pump side	Silicon carbide	Silicon carbide	NBR																			
8	BEARINGS	6203 ZZ / 6203 ZZ																						
9	CAPACITOR																							
<table><tr><th>Pump</th><th colspan="2">Capacitance</th></tr><tr><th>Single-phase</th><th>(230 V or 240 V)</th><th>(110 V)</th></tr><tr><td>VXm 8/35 -MF</td><td rowspan="3">20 µF 450 VL</td><td rowspan="3">30 µF - 250 VL</td></tr><tr><td>VXm 8/50 -MF</td></tr><tr><td>VXm 10/35-MF</td></tr><tr><td>VXm 10/50-MF</td><td rowspan="3">25 µF 450 VL</td><td rowspan="3">–</td></tr><tr><td>VXm 15/35-MF</td></tr><tr><td>VXm 15/50-MF</td></tr></table>			Pump	Capacitance		Single-phase	(230 V or 240 V)	(110 V)	VXm 8/35 -MF	20 µF 450 VL	30 µF - 250 VL	VXm 8/50 -MF	VXm 10/35-MF	VXm 10/50-MF	25 µF 450 VL	–	VXm 15/35-MF	VXm 15/50-MF						
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VXm: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding																								
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– 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	☐	1~	3~
VXm 8/35 -MF	VX 8/35 -MF	1½"	Ø 40 mm	107	97	143	410	86	50	regolabile	500	500	12.7	12.5
VXm 10/35 -MF	VX 10/35 -MF						421						13.6	12.5
VXm 15/35 -MF	VX 15/35 -MF						432	15.0	13.9					
VXm 8/50 -MF	VX 8/50 -MF	2"	Ø 50 mm	112			447	102	60				12.9	12.9
VXm 10/50 -MF	VX 10/50 -MF						13.9						13.0	
VXm 15/50 -MF	VX 15/50 -MF						15.4	14.2						

ABSORPTION

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

MODEL	VOLTAGE			
Three-phase	230 V	400 V	240 V	415 V
VX 8/35 -MF	3.0 A	1.7 A	2.9 A	1.65 A
VX 10/35 -MF	3.5 A	2.0 A	3.4 A	1.95 A
VX 15/35 -MF	5.2 A	3.0 A	5.0 A	2.9 A
VX 8/50 -MF	3.2 A	1.8 A	3.1 A	1.75 A
VX 10/50 -MF	3.5 A	2.0 A	3.4 A	1.95 A
VX 15/50 -MF	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 -MF	VX 8/35 -MF	60	80
VXm 10/35 -MF	VX 10/35 -MF	60	80
VXm 15/35 -MF	VX 15/35 -MF	54	72
VXm 8/50 -MF	VX 8/50 -MF	54	72
VXm 10/50 -MF	VX 10/50 -MF	54	72
VXm 15/50 -MF	VX 15/50 -MF	54	72

Submersible pumps in stainless steel

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



PERFORMANCE RANGE

- Flow rate up to **750 l/min** (45 m³/h)
- Head up to **15 m**

APPLICATION LIMITS

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

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



INSTALLATION AND USE

BC-MF submersible pumps are recommended for draining **dirty and sewage water** in domestic, civil and industrial applications. They come equipped with a **DOUBLE-CHANNEL** impeller and are capable of pumping liquids containing short fibred suspended solids up to Ø 50 mm. They are ideal for pumping sewage, waste water, surface water and water mixed with mud in locations such as blocks of flats and detached house.

These pumps distinguish themselves for their reliability, which can be best appreciated under automatic operating conditions in fixed installations.

PATENTS - TRADE MARKS - MODELS

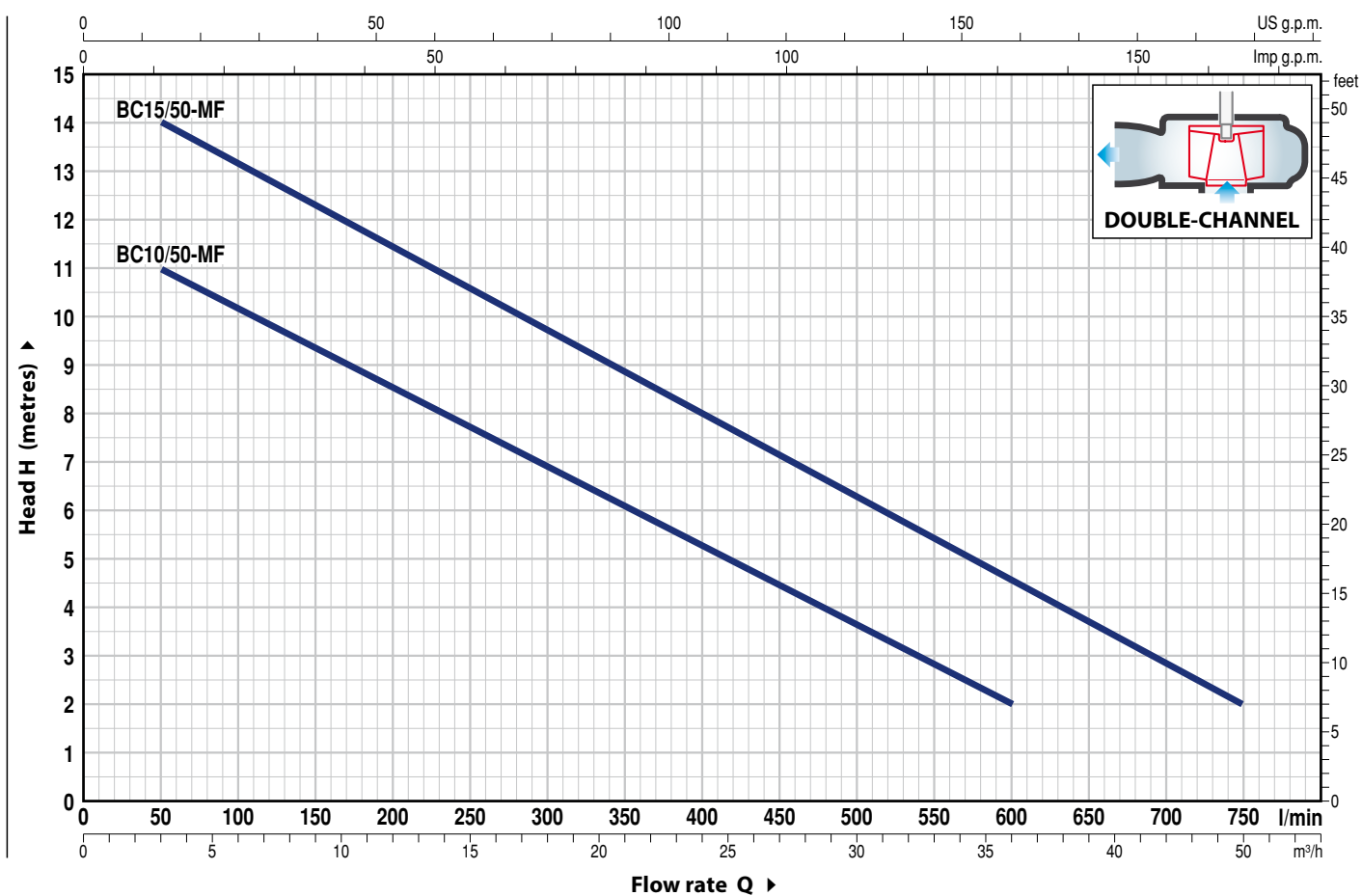
- Patent n. EP2313658
- Patent n. IT0001428923

OPTIONS AVAILABLE ON REQUEST

- Single-phase pumps without float switch
- Other voltages or 60 Hz frequency

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min⁻¹



MODEL		POWER (P ₂)		Q	0	3	6	12	18	24	30	36	42	45
Single-phase	Three-phase	kW	HP		0	50	100	200	300	400	500	600	700	750
BCm 10/50-MF	BC 10/50-MF	0.75	1	H metres	12	11	10	8.5	7	5	3.5	2		
BCm 15/50-MF	BC 15/50-MF	1.1	1.5		15	14	13	11.5	9.7	8	6.3	4.5	3	2

Q = Flow rate H = Total manometric head

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

POS. COMPONENTCONSTRUCTION CHARACTERISTICS

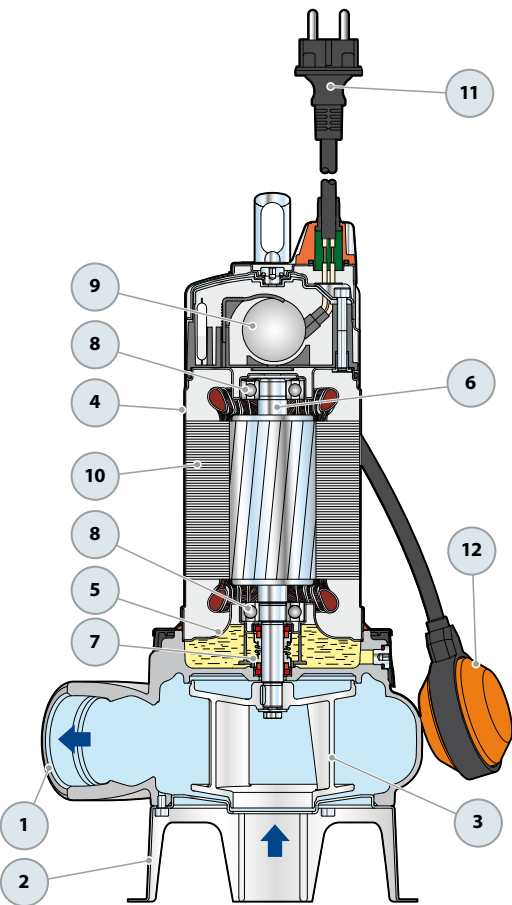
1	PUMP BODY	Precision cast stainless steel AISI 316L with threaded port in compliance with ISO 228/1				
2	BASE	Stainless steel AISI 304				
3	IMPELLER	Precision cast stainless steel AISI 304 DOUBLE-CHANNEL type				
4	MOTOR CASING	Stainless steel AISI 304				
5	MOTOR CASING PLATE	Stainless steel AISI 304				
6	MOTOR SHAFT	Stainless steel AISI 316L				
7	SHAFT WITH DOUBLE MECHANICAL SEAL SEPARATED BY AN OIL CHAMBER					
	Seal	Shaft	Position	Materials		
	Model	Diameter		Stationary ring	Rotational ring	Elastomer
	MG1-14D SIC	Ø 14 mm	Motor side	Silicon carbide	Graphite	NBR
			Pump side	Silicon carbide	Silicon carbide	NBR
8	BEARINGS	6203 ZZ / 6203 ZZ				

9	CAPACITOR		
<i>Pump</i>	<i>Capacitance</i>		
<i>Single-phase</i>	<i>(230 V or 240 V)</i>	<i>(110 V)</i>	
BCm 10/50-MF	20 µF 450 VL	30 µF 250 VL	
BCm 15/50-MF	25 µF 450 VL	–	

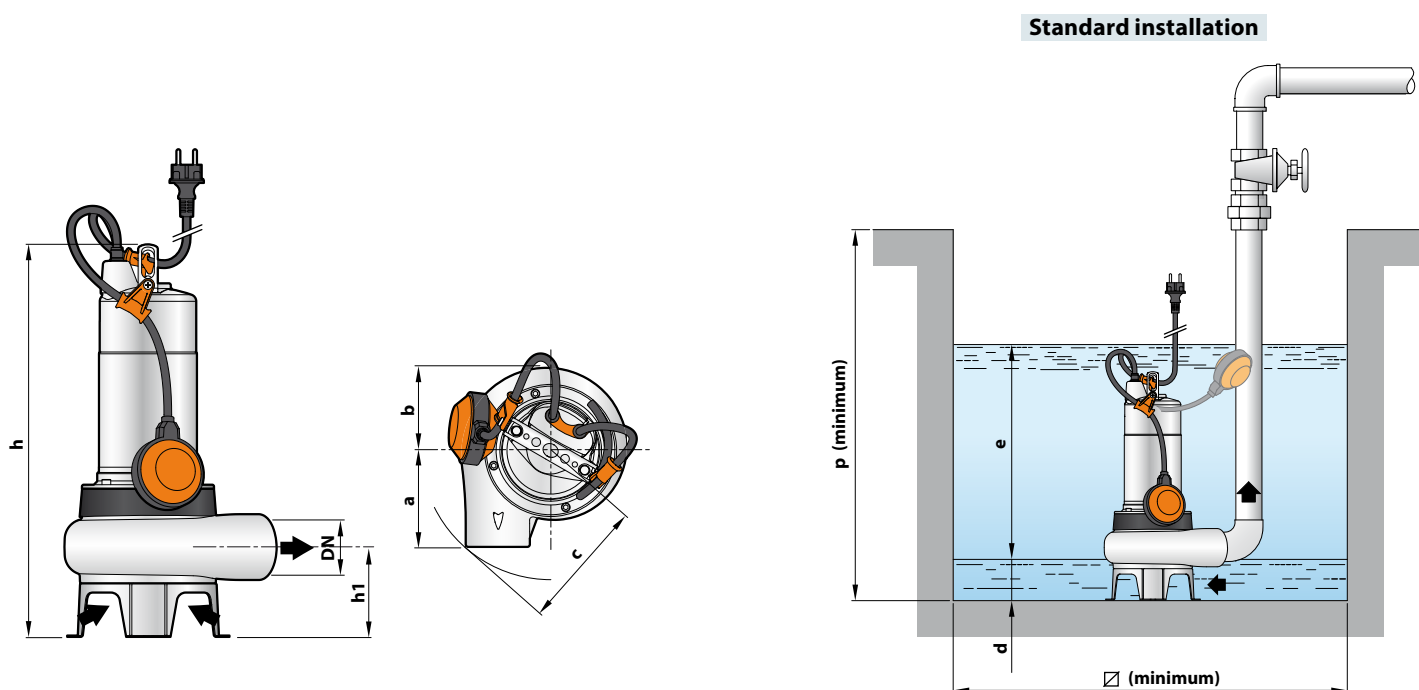
10	ELECTRIC MOTOR	
BCm:	single-phase 230 V - 50 Hz	
	with thermal overload protector incorporated into the winding	
BC:	three-phase 400 V - 50 Hz	
	– Insulation: class F	
	– Protection: IP X8	

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	□		1~	3~
BCm 10/50-MF	BC 10/50-MF	2"	Ø 50 mm	112	97	150	432	102	60	variable	500	500		14.5	13.5
BCm 15/50-MF	BC 15/50-MF						447							15.5	14.3

ABSORPTION

MODEL	VOLTAGE		
	230 V	240 V	110 V
BCm 10/50-MF	5.0 A	5.0 A	11.8 A
BCm 15/50-MF	8.2 A	8.0 A	–

MODEL	VOLTAGE			
	230 V	400 V	240 V	415 V
BC 10/50-MF	3.6 A	2.1 A	3.5 A	2.0 A
BC 15/50-MF	5.5 A	3.2 A	5.4 A	3.1 A

PALLETIZATION

MODEL		GROUPAGE n. pumps	CONTAINER n. pumps
Single-phase	Three-phase		
BCm 10/50-MF	BC 10/50-MF	54	72
BCm 15/50-MF	BC 15/50-MF	54	72

SEWAGE LIFTING SYSTEM VX-MF – BC-MF



A) HORIZONTAL DELIVERY VERSION WITH 3/4" GUIDE TUBES

For VX /35-MF	Cod. ASSPVX35ST	DN 2"
For VX /50-MF , BC /50-MF	Cod. ASSPVX50ST	DN 2"

Kit consisting of:

- footing connection
- slide guide with ring nut and seal
- support for the guide tubes

B) VERTICAL DELIVERY VERSION WITH 3/4" GUIDE TUBES

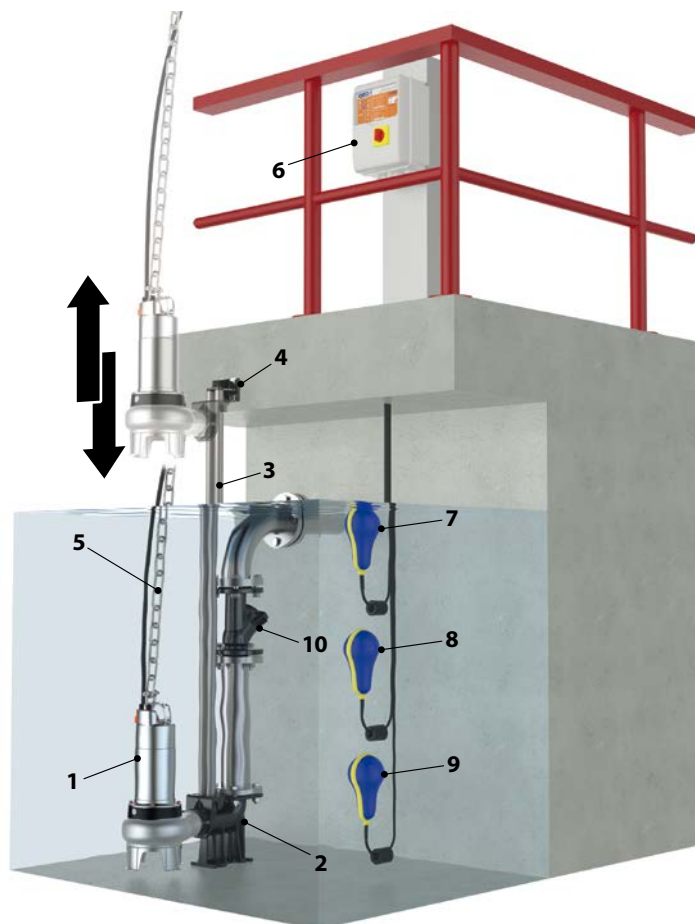
For VX /35-MF	Cod. ASSPVX35STV	DN 2½"
For VX /50-MF, BC /50-MF	Cod. ASSPVX50STV	DN 2½"

Kit consisting of:

- footing connection complete with counterflange
- slide guide with ring nut and seal
- support for the guide tubes

STANDARD INSTALLATION

1. Pump
2. Footing connection
3. Guide tubes
4. Support for the guide tubes
5. Lifting chain
6. Control box
7. Alarm float switch
8. Starting float switch
9. Stop float switch
10. Non-return valve



SLIDE GUIDE (Also to be ordered separately)

For VX /35-MF	Cod. ASSFL005
For VX /50-MF , BC /50-MF	Cod. ASSFL005

Complete with ring nut and seal

● INTERMEDIATE SUPPORT (To be ordered separately)

Cod. 859SV340INTFA	For guide tubes Ø 3/4"
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In order to ensure stability, insert the intermediate support every 2 metres

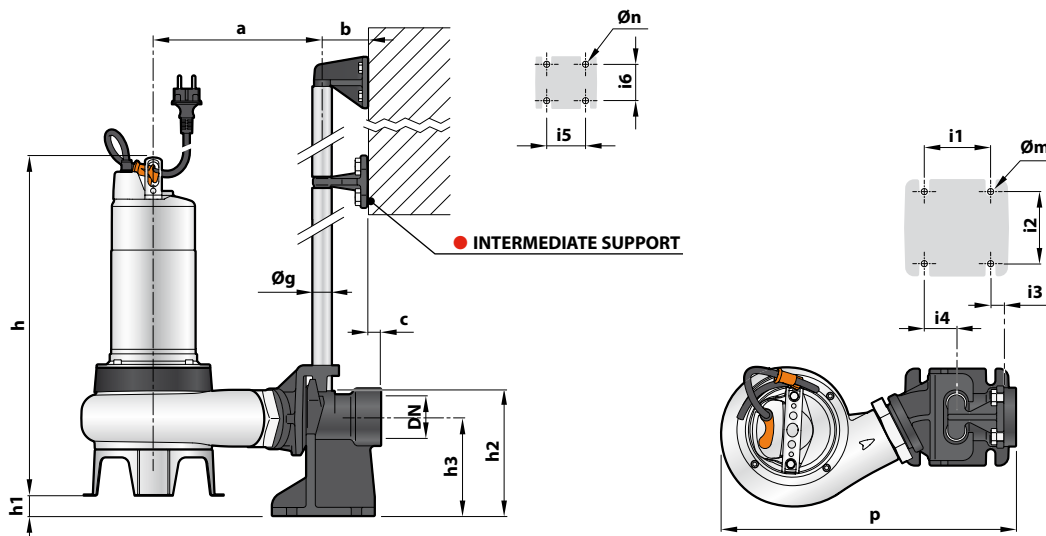


GUIDE TUBES (AISI 304 stainless steel)

Cod. 54SARTG005	Ø 3/4"
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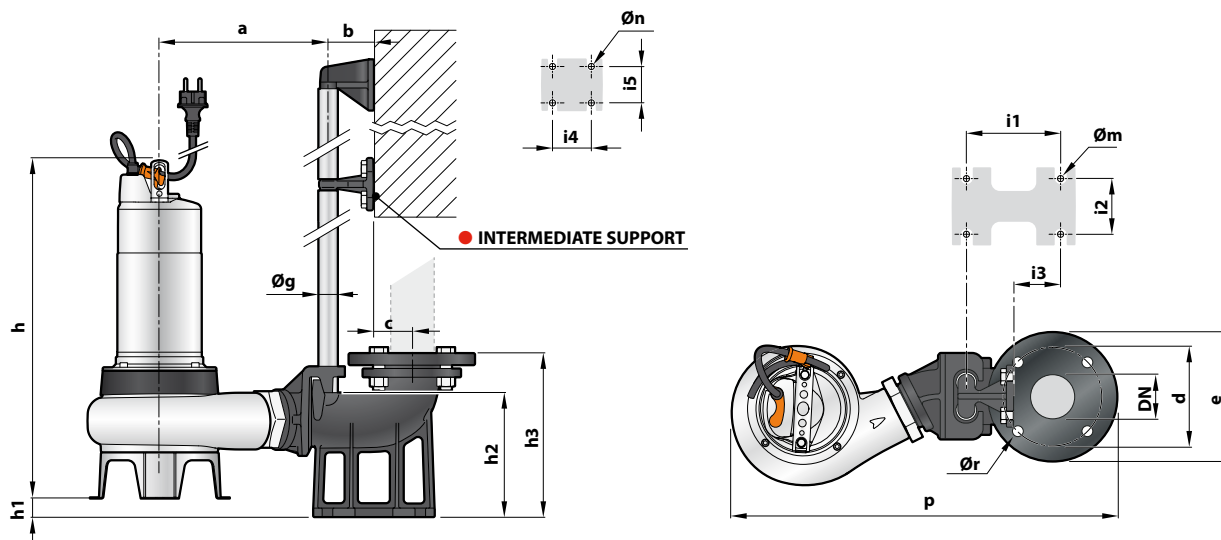
Maximum length of the tube plank: 6 metres

DIMENSIONS (Horizontal delivery version)



MODEL		Passage of solids mm	PORT DN	DIMENSIONS mm																
Single-phase	Three-phase			a	b	c	p	h	h1	h2	h3	i1	i2	i3	i4	i5	i6	Øg	Øm	Øn
VXm 8/35 -MF	VX 8/35 -MF	40	2"	217	61	17	387	406	45	165	130	85	94	16	40	50	48	¾"	12	11
VXm 10/35 -MF	VX 10/35 -MF							421												
VXm 15/35 -MF	VX 15/35 -MF																			
VXm 8/50 -MF	VX 8/50 -MF	50	2"				390	434	29											
VXm 10/50 -MF	VX 10/50 -MF							445												
VXm 15/50 -MF	VX 15/50 -MF							430												
BCm 10/50 -MF	BC 10/50 -MF	50	2"					445												
BCm 15/50 -MF	BC 15/50 -MF																			

DIMENSIONS (Vertical delivery version)



MODEL		Passage of solids mm	PORT DN	DIMENSIONS mm																		
Single-phase	Three-phase			a	b	c	d	e	p	h	h1	h2	h3	i1	i2	i3	i4	i5	Øg	Øm	Øn	Ør
VXm 8/35 -MF	VX 8/35 -MF	40	2½"	217	61	52	125	165	504	406	42	164	215	120	72	62	50	48	¾"	14	11	18
VXm 10/35-MF	VX 10/35-MF																					
VXm 15/35-MF	VX 15/35-MF																					
VXm 8/50 -MF	VX 8/50 -MF	50	2½"						507	430	26											
VXm 10/50-MF	VX 10/50-MF																					
VXm 15/50-MF	VX 15/50-MF																					
BCm 10/50-MF	BC 10/50-MF																					
BCm 15/50-MF	BC 15/50-MF																					