

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

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

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

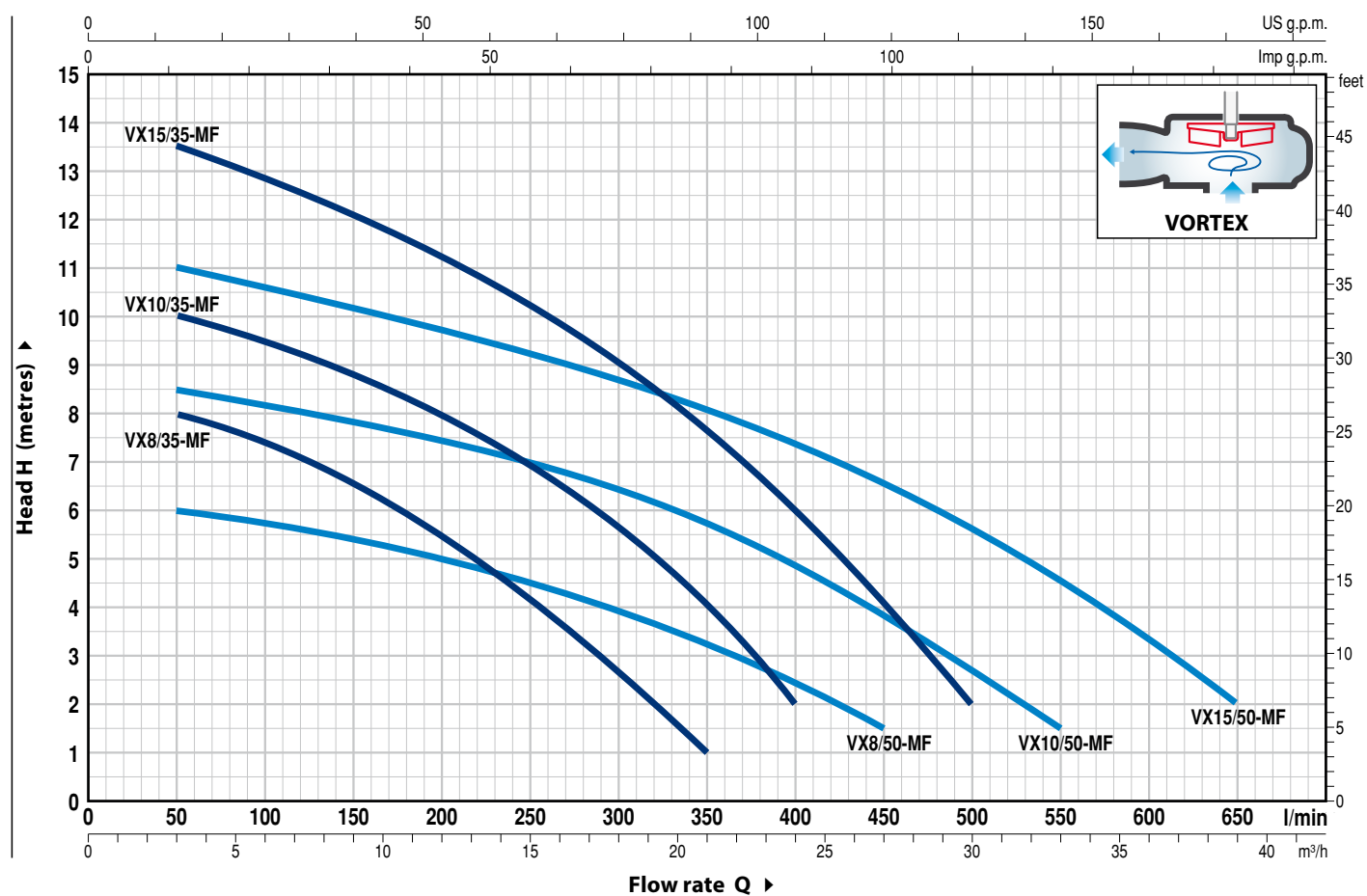
- Patent n° EP2313658
- Patent Pending n° BO2015A000116

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		m ³ /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

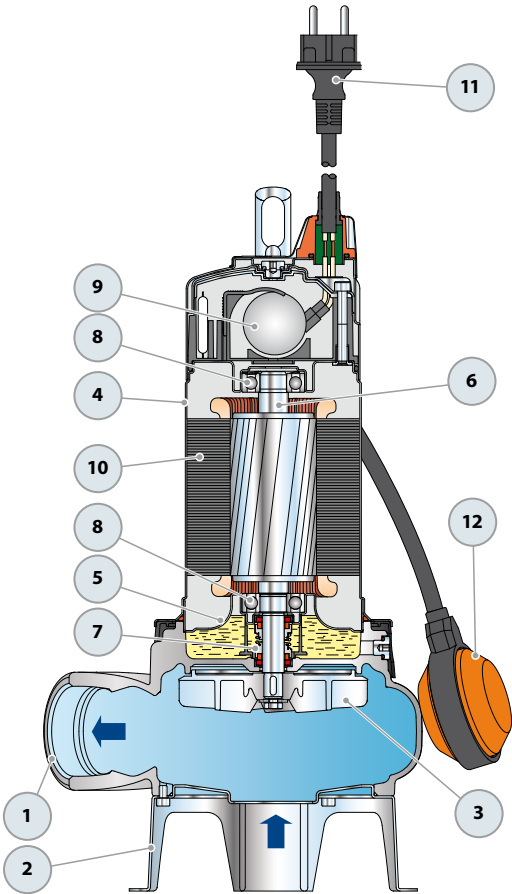
Q = Flow rate H = Total manometric head

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

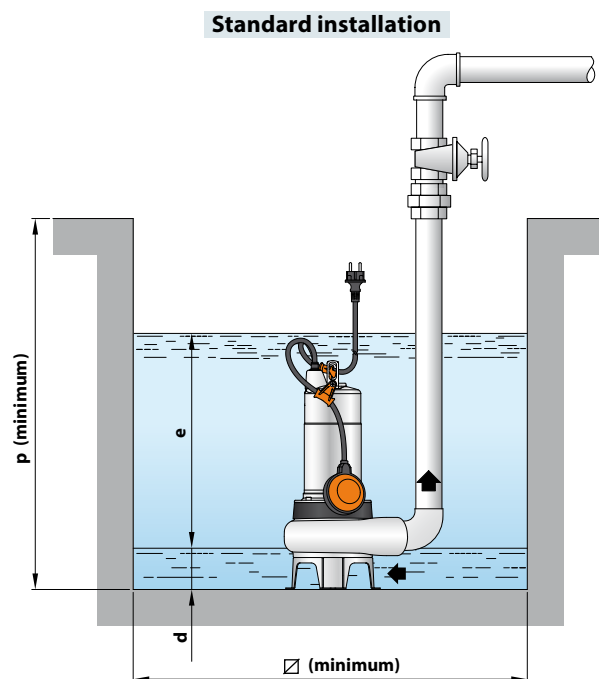
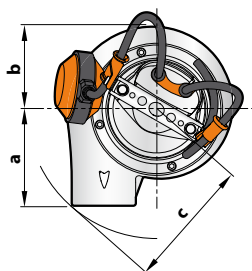
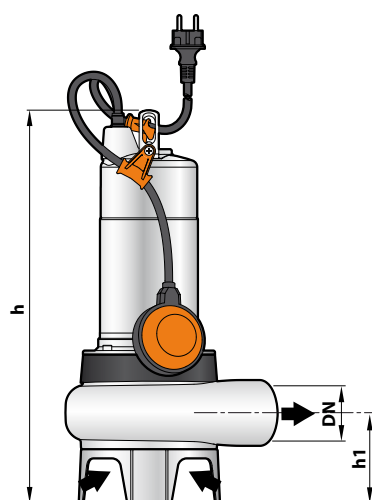
POS. COMPONENTCONSTRUCTION CHARACTERISTICS

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	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					
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		(220-230 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						
VXm 15/35-MF		25 µF 450 VL	–			
VXm 15/50-MF						
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)						

The diagram is a vertical cross-section of a pump assembly. At the top, a power plug (11) is connected to a cable. Below it, a capacitor (9) is shown. The main body of the pump consists of a motor casing (4) and a motor casing plate (5). Inside, the motor shaft (6) is visible, supported by bearings (8). The shaft is connected to an impeller (3) at the bottom. The impeller is housed within a pump body (1). A float switch (12) is attached to the side of the pump body. The entire assembly is mounted on a base (2). The diagram also shows a double mechanical seal (7) separating the motor shaft from the pump body.



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	98	150	410	86	50	variable	500	500	12.9	12.6
VXm 10/35 -MF	VX 10/35 -MF						421						13.7	12.6
VXm 15/35 -MF	VX 15/35 -MF						431	15.0	14.0					
VXm 8/50 -MF	VX 8/50 -MF	2"	Ø 50 mm	112			446	102	60				13.4	13.1
VXm 10/50 -MF	VX 10/50 -MF						14.2						13.1	
VXm 15/50 -MF	VX 15/50 -MF						15.5	14.5						

ABSORPTION

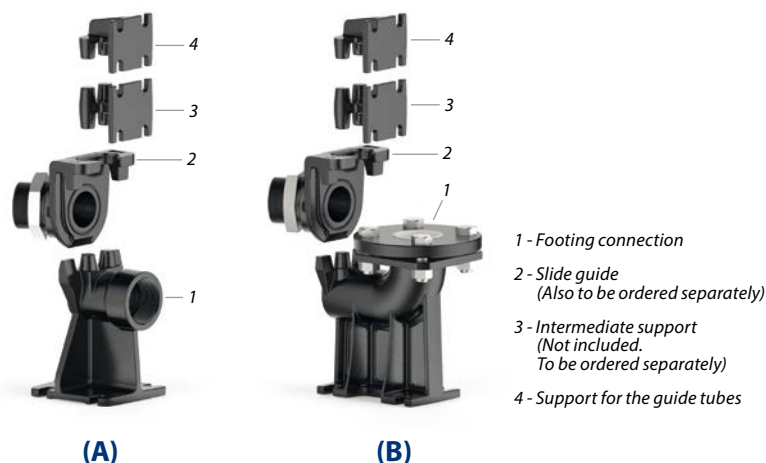
MODEL	VOLTAGE		
	230 V	240 V	110 V
Single-phase			
VXm 8/35 -MF	3.5 A	3.4 A	7.0 A
VXm 10/35 -MF	4.8 A	4.6 A	9.6 A
VXm 15/35 -MF	7.4 A	7.1 A	-
VXm 8/50 -MF	3.7 A	3.5 A	7.4 A
VXm 10/50 -MF	5.0 A	4.8 A	10.0 A
VXm 15/50 -MF	7.1 A	6.8 A	-

MODEL	VOLTAGE			
	230 V	400 V	240 V	415 V
Three-phase				
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

BASE PEDESTAL KIT 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

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)

For guide tubes Ø 3/4"	Cod. 859SV340INTFA
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GUIDE TUBES (AISI 304 stainless steel)

Guide tube Ø 3/4"	Cod. 54SARTG005
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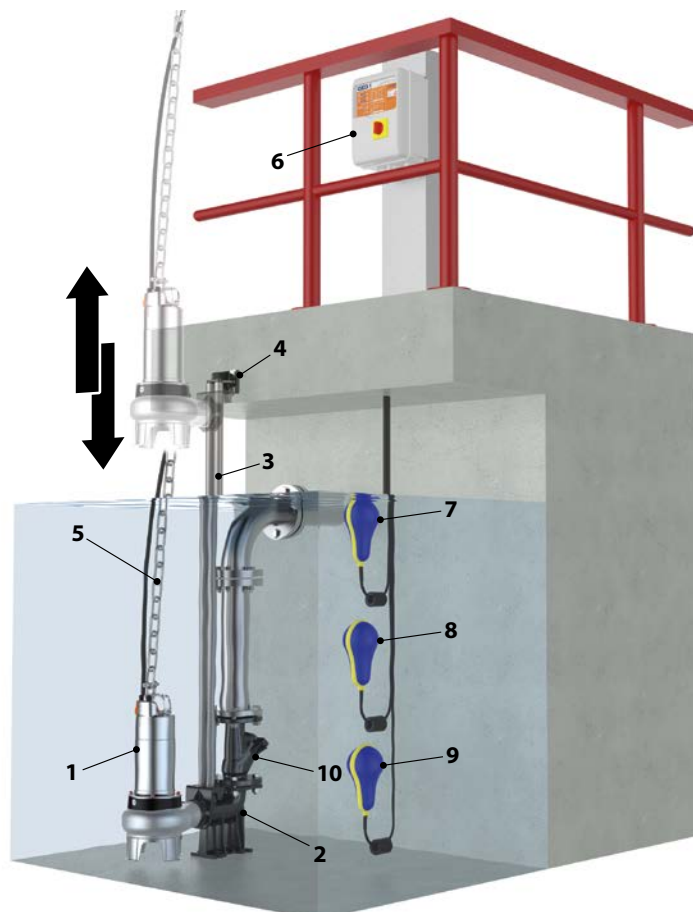
In order to ensure stability, insert the intermediate support every 2 metres

Maximum length of the tube plank: 6 metres

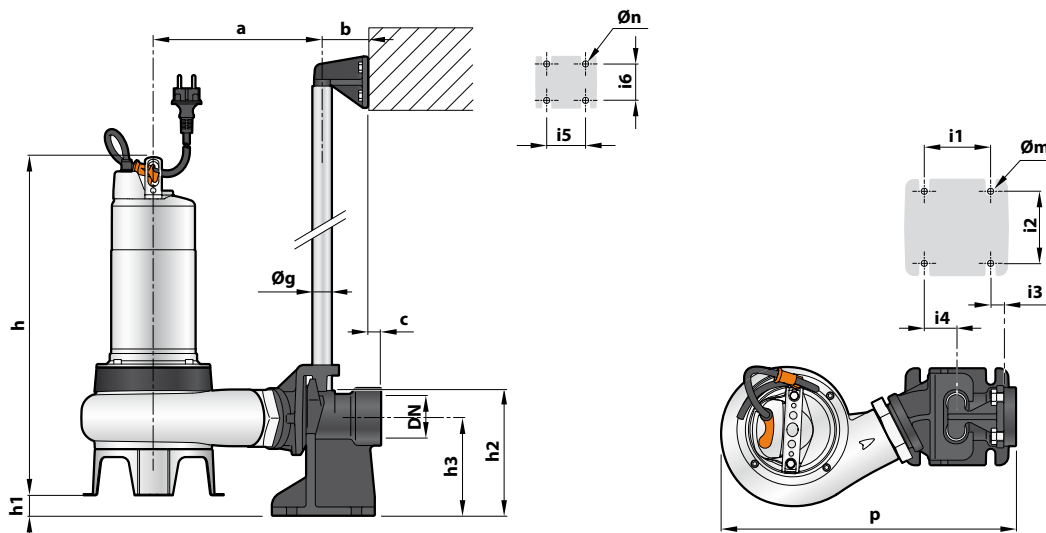


STANDARD INSTALLATION

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

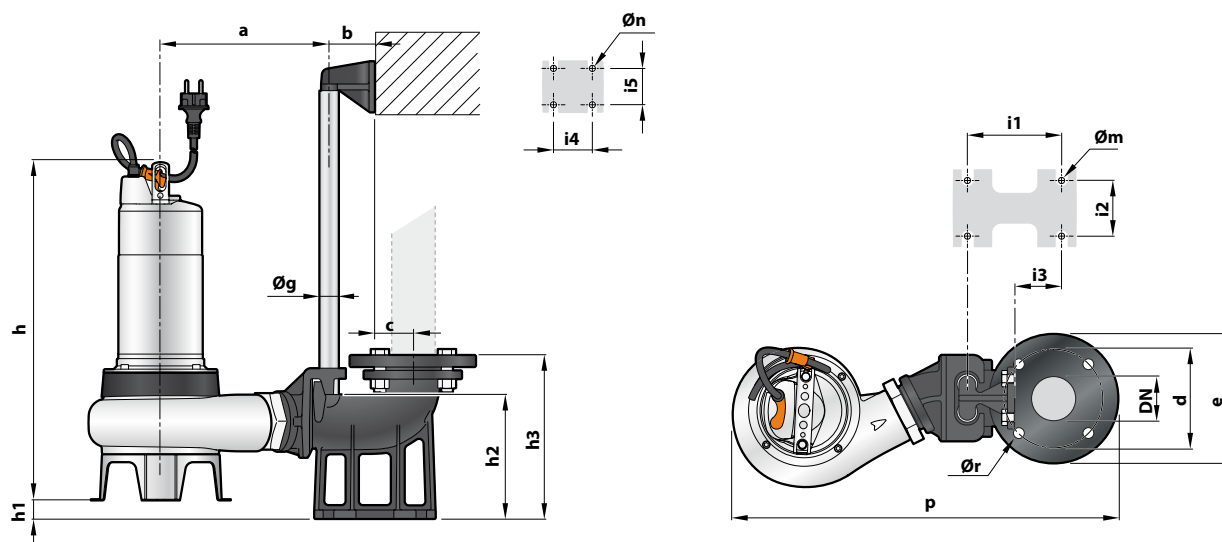


DIMENSIONS (Horizontal delivery version)



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																			
VXm 15/35 -MF	VX 15/35 -MF							421												
VXm 8/50 -MF	VX 8/50 -MF	50	2"				390	430	29											
VXm 10/50 -MF	VX 10/50 -MF																			
VXm 15/50 -MF	VX 15/50 -MF							445												
BCm 10/50 -MF	BC 10/50 -MF	50	2"					430												
BCm 15/50 -MF	BC 15/50 -MF							445												

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									421												
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									445												
VXm 15/50 -MF	VX 15/50 -MF									430												
BCm 10/50 -MF	BC 10/50 -MF									445												
BCm 15/50 -MF	BC 15/50 -MF																					