



Sewage



Domestic use



Civil use



Industrial use

※ **Powerful and robust high-efficiency pumps made entirely of stainless steel**



※ **VX-ST constructed entirely from stainless steel, VX-ST submersible pumps offer superior corrosion and abrasion.**

PERFORMANCE RANGE

- Flow rate up to **700 l/min** (42 m³/h)
- Head up to **21.5 m**

INSTALLATION AND USE

VX-ST stainless steel submersible pumps are designed for sewage drainage in **domestic, civil, and industrial** settings where suspended solids are present in the water, such as sludge-mixed water, groundwater, or surface water.

They are also perfect for pumping out flooded areas like basements, underground parking garages, car wash stations, and emptying septic tanks and sewage systems.

※ The hydraulic configuration of the **VORTEX** volute and impeller results from advanced fluid dynamics calculations, delivering superior performance and efficiency for notable energy savings.

※ The **VORTEX** impeller can handle solids up to **50 mm** in diameter. Its unique design ensures safe operation against clogging.

INCLUDES

- ※ Power cable length **10 m**
- ※ Float switch (exclusive to single-phase models)

APPLICATION LIMITS

- Depth below water level up to **5 m** (with an appropriately sized power cable)
- Liquid temperature up to **+40 °C**
- Suspended solids transfer:
 - up to **Ø 40 mm** for VX /35-ST
 - up to **Ø 50 mm** for VX /50-ST
- **Minimum immersion for continuous service:**
 - **290 mm** for VX 8-ST and VX 10-ST
 - **330 mm** for VX 15-ST
 - **360 mm** for VX 20-ST

AVAILABLE UPON REQUEST

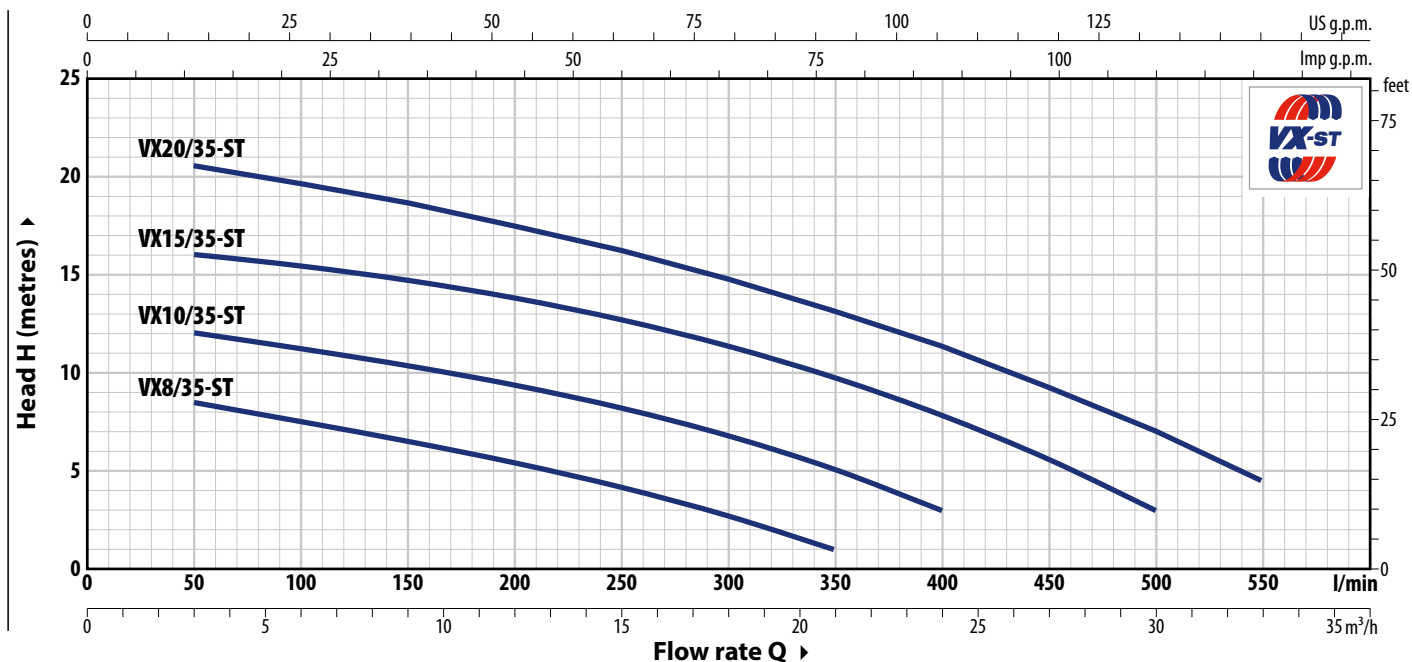
- ※ AISI 316L stainless steel pump shaft
- ※ Different voltage or frequency

PATENTS - TRADE MARKS - MODELS

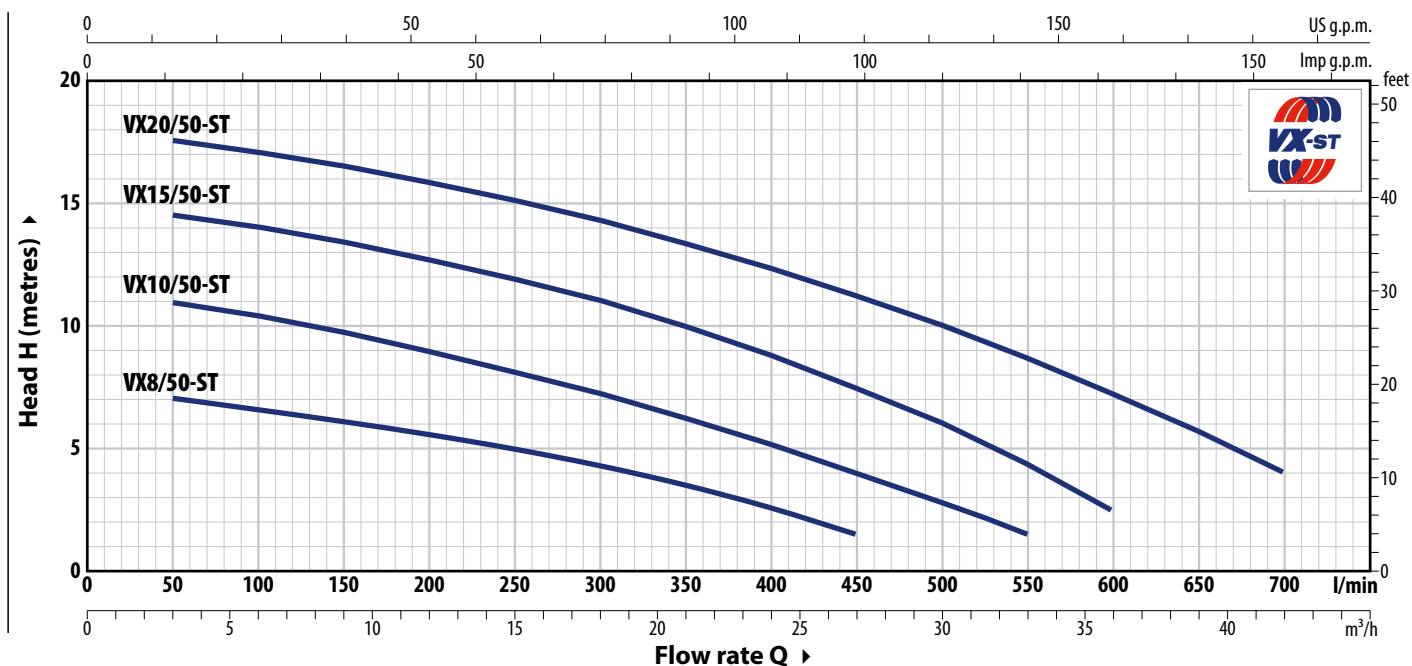
- Patent No. EP2313658
- Patent No. IT0001428923

CURVES AND PERFORMANCE DATA

60 Hz



TYPE		POWER (P ₂)		Q											
Single-phase	Three-phase	kW	HP		m³/h	0	3	6	12	18	21	24	27	30	33
VXm 8/35 -ST	VX 8/35 -ST	0.55	0.75	H metres	l/min	0	50	100	200	300	350	400	450	500	550
VXm 10/35-ST	VX 10/35-ST	0.75	1			9.5	8.5	7.5	5.4	2.7	1				
VXm 15/35-ST	VX 15/35-ST	1.1	1.5			13	12	11.4	9.5	6.9	5.1	3			
VXm 20/35-ST	VX 20/35-ST	1.5	2			16.5	16	15.4	13.8	11.4	9.8	7.8	5.6	3	
						21.5	20.5	19.7	17.5	14.8	13.2	11.4	9.3	7	4.5



TYPE		POWER (P ₂)		Q											
Single-phase	Three-phase	kW	HP		m³/h	0	3	6	12	18	24	27	30	33	36
VXm 8/50 -ST	VX 8/50 -ST	0.55	0.75	H metres	l/min	0	50	100	200	300	400	450	500	550	600
VXm 10/50-ST	VX 10/50-ST	0.75	1			7.5	7	6.6	5.7	4.2	2.5	1.5			
VXm 15/50-ST	VX 15/50-ST	1.1	1.5			11.5	11	10.4	9	7.2	5.2	4	2.8	1.5	
VXm 20/50-ST	VX 20/50-ST	1.5	2			15	14.5	14	12.7	11	8.8	7.5	6	4.3	2.5
						18	17.5	17.1	15.9	14.3	12.3	11.2	10	8.7	7.2
															4

Q = Flow rate H = Total manometric head

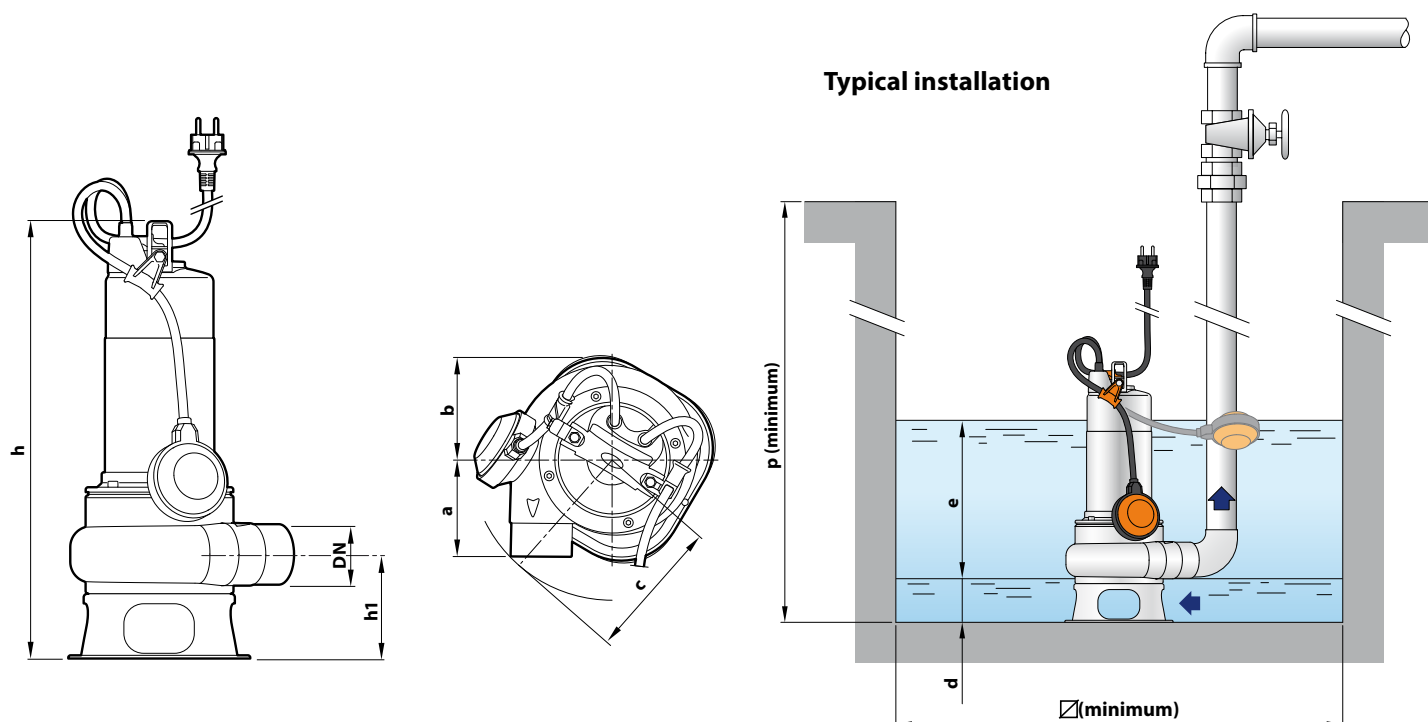
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	VOLTAGE	
	220 V	110 V
Single-phase		
VXm 8/35 -ST	4.0 A	8.0 A
VXm 10/35 -ST	6.3 A	12.6 A
VXm 15/35 -ST	8.0 A	–
VXm 20/35 -ST	11.5 A	–
VXm 8/50 -ST	4.0 A	8.0 A
VXm 10/50 -ST	6.3 A	12.6 A
VXm 15/50 -ST	8.0 A	–
VXm 20/50 -ST	11.5 A	–

TYPE	VOLTAGE	
	380 V	440 V
Three-phase		
VX 8/35 -ST	1.6 A	1.5 A
VX 10/35 -ST	2.2 A	1.0 A
VX 15/35 -ST	3.6 A	3.1 A
VX 20/35 -ST	4.3 A	3.8 A
VX 8/50 -ST	1.6 A	1.5 A
VX 10/50 -ST	2.4 A	1.0 A
VX 15/50 -ST	3.6 A	3.1 A
VX 20/50 -ST	4.3 A	3.8 A

DIMENSIONS AND WEIGHT



TYPE		PORT DN	Passage of solid bodies	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	96	140	424	106	55	adjustable	500	500	11.2	10.1			
VXm 10/35 -ST	VX 10/35 -ST						439						12.7	11.5			
VXm 15/35 -ST	VX 15/35 -ST						472						15.5	13.9			
VXm 20/35 -ST	VX 20/35 -ST						502						17.7	15.5			
VXm 8/50 -ST	VX 8/50 -ST	2"	Ø 50 mm	102	96	145	435	107	60							11.4	10.3
VXm 10/50 -ST	VX 10/50 -ST						450									12.9	11.7
VXm 15/50 -ST	VX 15/50 -ST						483									15.7	14.1
VXm 20/50 -ST	VX 20/50 -ST						513									17.9	15.7

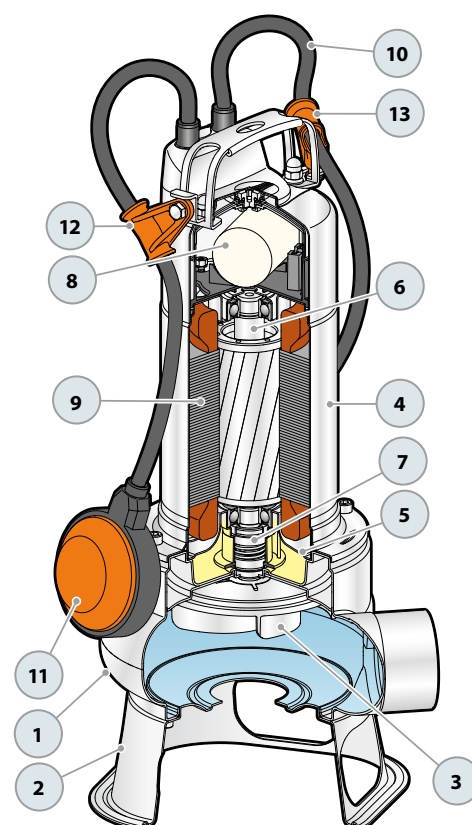
PALLET CAPACITY

TYPE		GROUPAGE n. pumps	CONTAINER n. pumps
Single-phase	Three-phase		
VXm 8/35 -ST	VX 8/35 -ST	45	60
VXm 10/35 -ST	VX 10/35 -ST	45	60
VXm 15/35 -ST	VX 15/35 -ST	30	45
VXm 20/35 -ST	VX 20/35 -ST	30	45
VXm 8/50 -ST	VX 8/50 -ST	45	60
VXm 10/50 -ST	VX 10/50 -ST	45	60
VXm 15/50 -ST	VX 15/50 -ST	30	45
VXm 20/50 -ST	VX 20/50 -ST	30	45

MATERIALS AND COMPONENTS

1	Pump body	AISI 304 stainless steel with ISO 228/1 threaded port		
2	Base	Stainless steel AISI 304		
3	Impeller	VORTEX type in AISI 304 stainless steel		
4	Motor sleeve	Stainless steel AISI 304		
5	Motor cover	Stainless steel AISI 304 Cast iron with cataphoresis treatment for VX 15-20 ST		
6	Motor shaft	Stainless steel AISI 431		
7	Double mechanical seal in oil chamber			
	Seal	Shaft	Location	Materials
	MG1-14D SIC	Ø 14 mm	Motor side	Silicon carbide / Graphite / NBR
			Pump side	Silicon carbide/Silicon carbide/NBR
8	Capacitor (exclusive to single-phase models)			
9	Electric motor			
	VXm-ST: single-phase 220 V - 60 Hz or 110 V - 60 Hz with winding integrated thermal motor protection			
	VX-ST: three-phase 380 V - 60 Hz or 440 V - 60 Hz			
	– Insulation: class F			
	– Protection rating: IP X8			
10	Power cord			
	Power cable encapsulated with epoxy resin both in the grommet area and where the conductors exit the sheath, for absolute insulation against moisture and water.			
	Type 'H07 RN-F' (Schuko plug exclusive to single-phase models)			
	※ Standard length 10 metres			
11	Float switch (exclusive to single-phase models)			
12	Tilting device for the float cable (exclusive to single-phase models)			
	Patent No. IT0001428923			
13	Power cable strain relief			
	Patent No. EP2313658			

A detailed cross-sectional diagram of a submersible pump assembly. The diagram shows the internal components, including the motor, impeller, and various seals. Numbered callouts (1-13) point to specific parts: 1. Pump body, 2. Base, 3. Impeller, 4. Motor sleeve, 5. Motor cover, 6. Motor shaft, 7. Double mechanical seal in oil chamber, 8. Capacitor, 9. Electric motor, 10. Power cord, 11. Float switch, 12. Tilting device for the float cable, and 13. Power cable strain relief. The diagram is a technical illustration showing the internal structure of the pump, with various components labeled with numbers corresponding to the parts list on the left.



SEWAGE LIFTING SYSTEM KIT VX-ST - BC-ST

VERSION WITH HORIZONTAL DELIVERY AND 3/4" GUIDE PIPES

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

※ Kit consisting of:



Coupling foot



Solids rail with ring nut and seal



Support for guide tubes



VERSION WITH VERTICAL DELIVERY AND 3/4" GUIDE PIPES

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

※ Kit consisting of:



Coupling foot complete with counterflange



Solids rail with ring nut and seal



Support for guide tubes



● ACCESSORIES AVAILABLE FOR ORDER

RUNNING GUIDE

※ For VX /35-ST	CODE ASSFL005
※ For VX /50-ST , BC /50-ST	CODE ASSFL006

Complete with ring nut and gasket



GUIDE TUBE SUPPORT

※ For Ø 3/4 " guide tubes	CODE 859SV340INTFA
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To ensure stability, insert a support every 2 metres along the guide tube

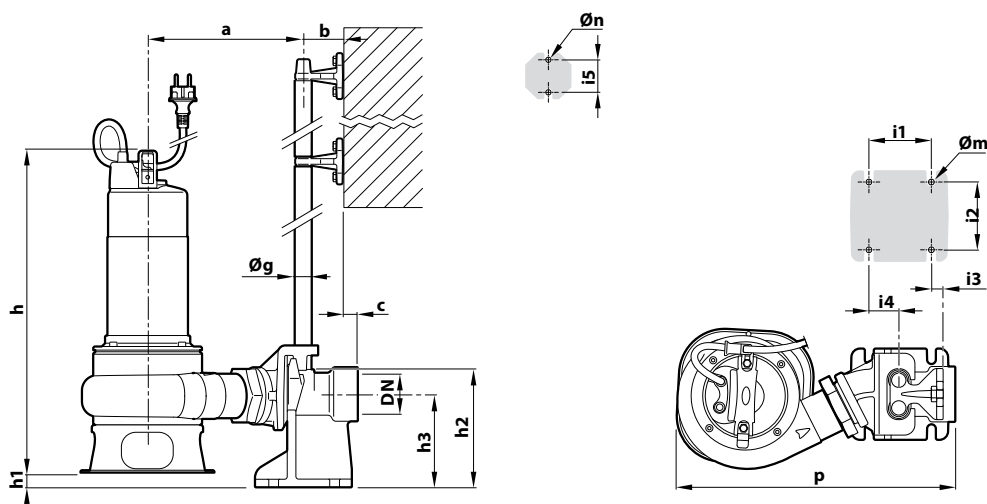


GUIDE TUBE (AISI 304 stainless steel)

※ 2 metres Ø 3/4" guide tube	CODE 54SARTG0052F
※ 3 metres Ø 3/4" guide tube	CODE 54SARTG0053F
※ 6 metres Ø 3/4" guide tube	CODE 54SARTG0056F

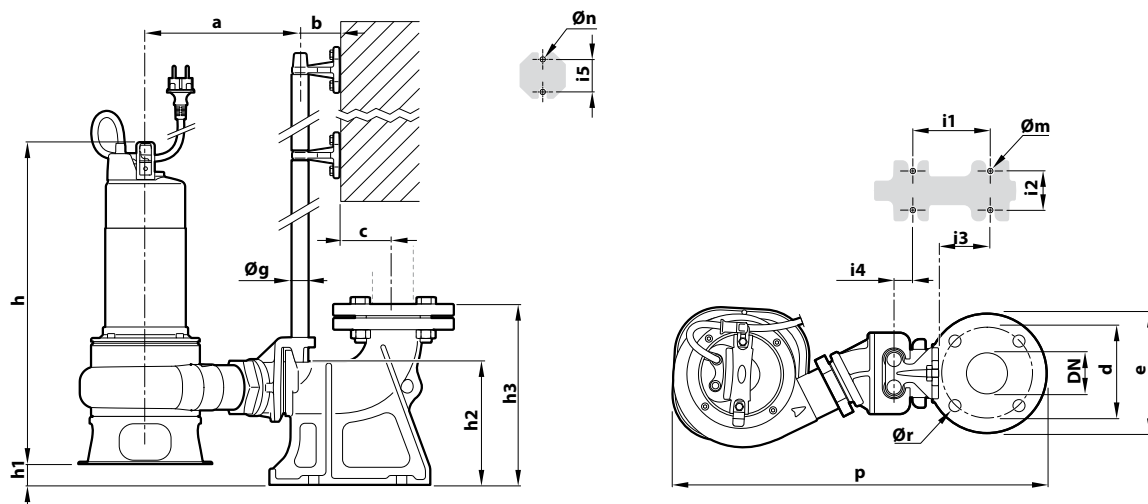


DIMENSIONS (Version with horizontal outlet)



TYPE		Passage of solid bodies mm	PORT DN	DIMENSIONS mm															
Single-ph.	Three-ph.			a	b	c	p	h	h1	h2	h3	i1	i2	i3	i4	i5	Øg	Øm	Øn
VXm 8/35 -ST	VX 8/35 -ST	40	2"	214	61	17	386	424	24	165	130	85	94	16	40	50	¾"	12	11
VXm 10/35 -ST	VX 10/35 -ST							439											
VXm 15/35 -ST	VX 15/35 -ST							472											
VXm 20/35 -ST	VX 20/35 -ST							502											
VXm 8/50 -ST	VX 8/50 -ST	50	2"	221	61	17	372	435	23	165	130	85	94	16	40	50	¾"	12	11
VXm 10/50 -ST	VX 10/50 -ST							450											
VXm 15/50 -ST	VX 15/50 -ST							483											
VXm 20/50 -ST	VX 20/50 -ST							513											
BCm 10/50 -ST	BC 10/50 -ST	50	2"	221	61	17	372	450	23	165	130	85	94	16	40	50	¾"	12	11
BCm 15/50 -ST	BC 15/50 -ST							483											
BCm 20/50 -ST	BC 20/50 -ST							513											

DIMENSIONS (Version with vertical delivery)



TYPE		Passage of solid bodies mm	PORT DN	DIMENSIONS mm															
Single-ph.	Three-ph.			a	b	c	d	e	p	h	h1	h2	h3	i1	i2	i3	i4	i5	Øg
VXm 8/35 -ST	VX 8/35 -ST	40	2½"	207	61	52	125	165	495	424	22	164	215	120	72	62	3	50	¾"
VXm 10/35 -ST	VX 10/35 -ST									439									
VXm 15/35 -ST	VX 15/35 -ST									472									
VXm 20/35 -ST	VX 20/35 -ST									502									
VXm 8/50 -ST	VX 8/50 -ST	50	2½"	212	61	52	125	165	501	435	26	164	215	120	72	62	3	50	¾"
VXm 10/50 -ST	VX 10/50 -ST									450									
VXm 15/50 -ST	VX 15/50 -ST									483									
VXm 20/50 -ST	VX 20/50 -ST									513									
BCm 10/50 -ST	BC 10/50 -ST	50	2½"	212	61	52	125	165	501	450	26	164	215	120	72	62	3	50	¾"
BCm 15/50 -ST	BC 15/50 -ST									483									
BCm 20/50 -ST	BC 20/50 -ST									513									