Sewage
Domestic use
Civil use
Industrial use

※ The Go-To Pump for Demanding Conditions and Performance Requirements



PERFORMANCE RANGE

- Flow rate up to **750 l/min** (45 m³/h)
- Head up to **19.5 m**

INSTALLATION AND USE

VX pumps are renowned for their reliability, especially in automated fixed installations.

Ideal for **domestic, civil, and industrial settings**, they efficiently handle suspended solids up to 50 mm in diameter, including in **groundwater**, **surface water, and sewage.**

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

INCLUDES

※ Power cable length:
  – **5 m** for VX 8 and VX 10
  – **10 m** for VX 15 and VX 20
※ 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
  - up to **Ø 50 mm** for VX /50
- **Minimum immersion for continuous service:**
  - 290 mm for VX 8 and VX 10
  - 330 mm for VX 15
  - 360 mm for VX 20

AVAILABLE UPON REQUEST

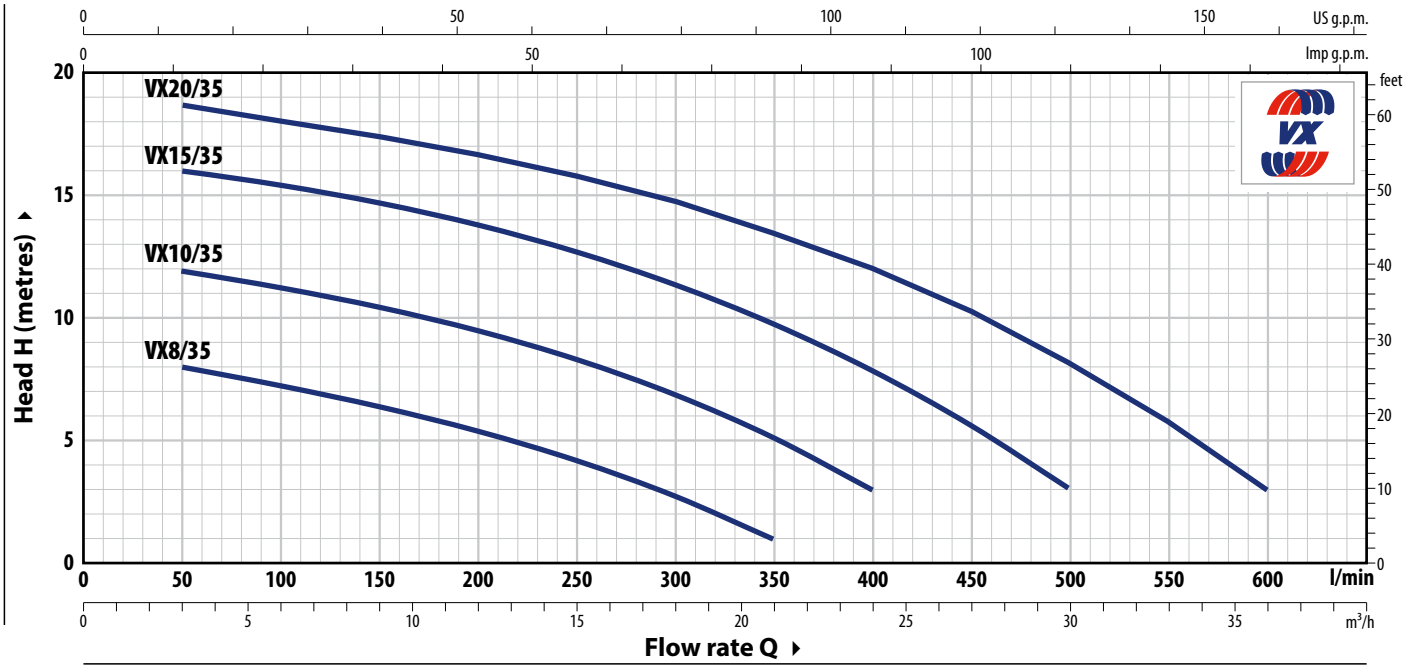
※ Pumps with **10 m** power cable for VX 8 and VX 10
※ Different voltage or frequency

PATENTS - TRADE MARKS - MODELS

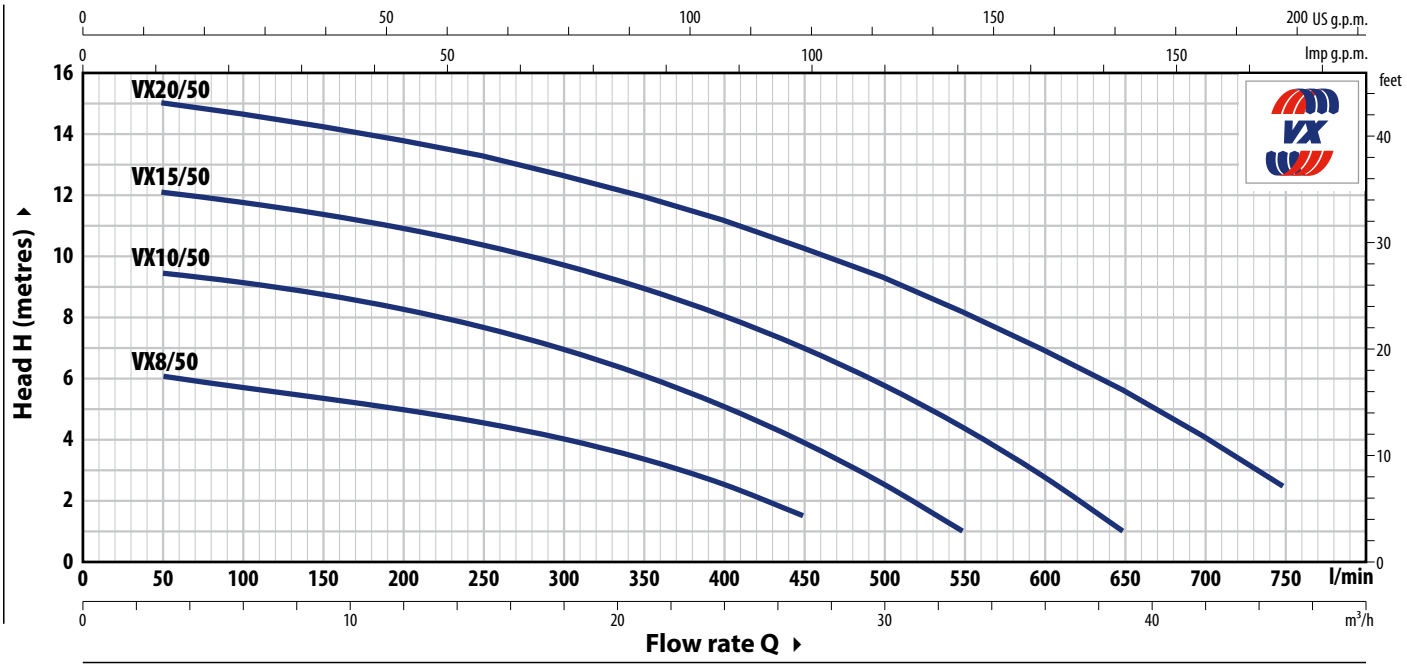
- Patent No. EP2313658
- Patent No. IT0001428923

CURVES AND PERFORMANCE DATA

60 Hz



TYPE		POWER (P2)		Q m³/h	0	3	6	12	18	21	24	27	30	33	36
Single-phase	**Three-phase**	**kW**	**HP**	Q l/min	**0**	**50**	**100**	**200**	**300**	**350**	**400**	**450**	**500**	**550**	**600**
VXm 8/35	**VX 8/35**	0.55	0.75	**H** metres	9	8	7.5	5.5	2.7	1					
VXm 10/35	**VX 10/35**	0.75	1		12.5	12	11.2	9.5	6.9	5.1	3				
VXm 15/35	**VX 15/35**	1.1	1.5		16.5	16	15.4	13.8	11.4	9.8	7.8	5.6	3		
VXm 20/35	**VX 20/35**	1.5	2		19.5	18.5	18	16.6	14.7	13.5	12	10.3	8.2	5.8	3



TYPE		POWER (P2)		Q m³/h	0	3	6	12	18	21	24	27	30	33	36	39	45
Single-phase	**Three-phase**	**kW**	**HP**	Q l/min	**0**	**50**	**100**	**200**	**300**	**350**	**400**	**450**	**500**	**550**	**600**	**650**	**750**
VXm 8/50	**VX 8/50**	0.55	0.75	**H** metres	6.5	6	5.8	5	4	3.3	2.5	1.5					
VXm 10/50	**VX 10/50**	0.75	1		9.5	9.5	9	8.1	6.8	6	5	3.8	2.5	1			
VXm 15/50	**VX 15/50**	1.1	1.5		12.5	12	11.9	11	9.8	9	8.1	7.1	5.8	4.4	2.8	1	
VXm 20/50	**VX 20/50**	1.5	2		15.5	15	14.8	13.9	12.8	12.1	11.3	10.4	9.4	8.2	7	5.6	2.5

Q = Flow rate **H** = Total manometric head

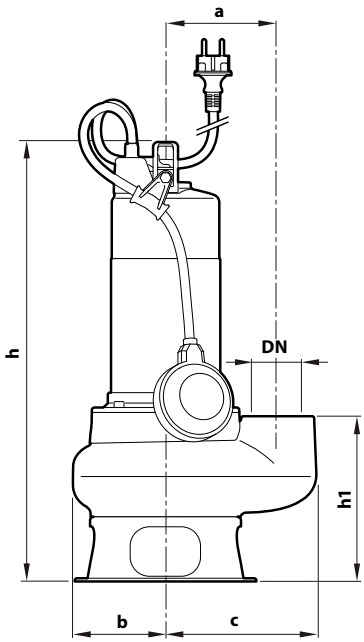
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

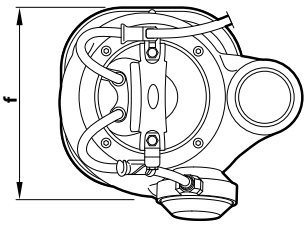
ABSORPTION

TYPE	VOLTAGE	
Single-phase	220 V	110 V
VXm 8/35	4.0 A	7.6 A
VXm 10/35	6.3 A	12.6 A
VXm 15/35	8.2 A	–
VXm 20/35	11.5 A	–
VXm 8/50	4.0 A	7.6 A
VXm 10/50	6.3 A	12.6 A
VXm 15/50	7.7 A	–
VXm 20/50	11.5 A	–

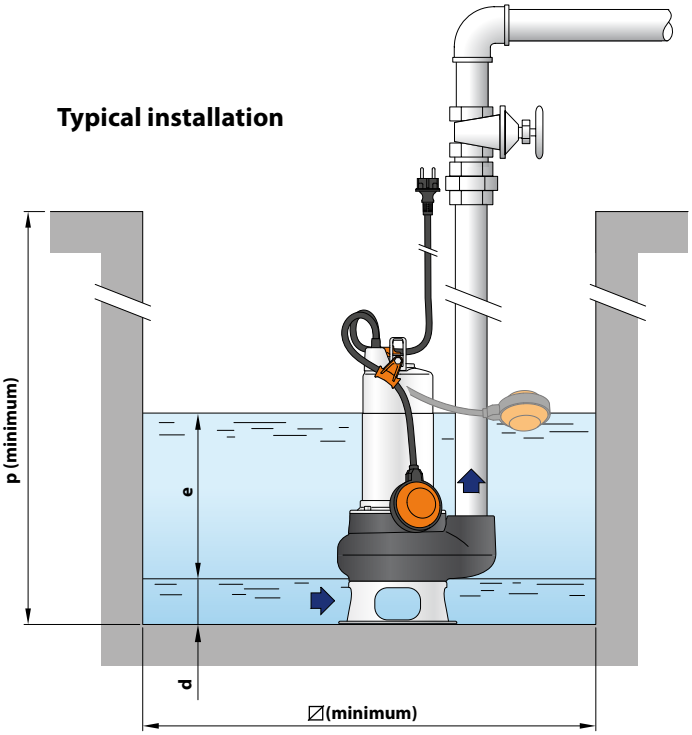
TYPE	VOLTAGE	
Three-phase	380 V	440 V
VX 8/35	1.6 A	1.5 A
VX 10/35	2.4 A	2.2 A
VX 15/35	3.6 A	3.1 A
VX 20/35	4.3 A	3.8 A
VX 8/50	1.6 A	1.5 A
VX 10/50	2.5 A	2.1 A
VX 15/50	3.6 A	3.1 A
VX 20/50	4.3 A	3.8 A

DIMENSIONS AND WEIGHT





Typical installation



TYPE		PORT	Passage of	DIMENSIONS mm										kg	
Single-phase	Three-phase	DN	solid bodies	a	b	c	f	h	h1	d	e	p	⍁	1~	3~
VXm 8/35	VX 8/35	1½"	Ø 40 mm	115	95	148	200	425	158	55	adjustable	500	500	13.7	12.6
VXm 10/35	VX 10/35							440						15.2	14.0
VXm 15/35	VX 15/35							473						18.0	16.4
VXm 20/35	VX 20/35							503						20.2	18.0
VXm 8/50	VX 8/50	2"	Ø 50 mm	115	95	155	200	436	169	60				14.2	13.1
VXm 10/50	VX 10/50							451						15.7	14.5
VXm 15/50	VX 15/50							484						18.5	16.9
VXm 20/50	VX 20/50							514						20.7	18.5

PALLET CAPACITY

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

MATERIALS AND COMPONENTS

1	**Pump body**	Cast iron with cataphoresis treatment for greater corrosion resistance 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**	**AISI 304** stainless steel for VX 8-10 Cast iron with cataphoresis treatment for VX 15-20
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: single-phase 220 V - 60 Hz or 110 V - 60 Hz with winding integrated thermal motor protection
VX: 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 5 metres (10 metres for VX 15 and VX 20)

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

