PLUG & DRAIN

Ready-to-use anti-flooding kit





※ PLUG & DRAIN PLUG & DRAIN is the essential emergency kit for fast and effective flood management in garages, basements, and cellars.

※ Features a high-performance drainage pump and a 12.5-metre-long PVC hose for quick water evacuation, plus the option to use the storage case as a filter.

※ PLUG & DRAIN efficiently lowers water to just about 2 mm from the ground, ensuring nearly complete removal.

※ Comes in a convenient carrying case that simplifies transport and doubles as a filter while you're draining.

PLUG & DRAIN Code. ASSKPDSTO2FA1

※ STANDARD COMPONENTS

SUBMERSIBLE Pump TOP2-FLOOR

- Single-phase **230 V - 50 Hz**
- Performance:
  – **H max= 8.5 m**
  – **Q max= 150 l/min**
- **10 metres** long power cable with Schuko plug
- Float switch
- **STORZ**' quick coupling
- Draining capability up to **2 mm** from the bottom



PVC HOSE

- **STORZ**' quick coupling
- Hose length **12.5 m**
- Pipe diameter **1¼"**



FILTER-BOX

- Features a secure pump attachment system for stable operation, with a quick-release option to use the pump independently
- Includes a cover for tidy storage, ensuring it's always ready for immediate use



※ PLUG & DRAIN WITH Pumps ON REQUEST

TOP3

Performance:
– H max= **10.4 m**
– Q max= **260 l/min**

CODE ASSKPDSTOP3A1



RXm 2

Performance:
– H max= **10.3 m**
– Q max= **190 l/min**

CODE ASSKPDSRX2A1



RXm 3

Performance:
- H max= **12.3 m**
- Q max= **220 l/min**

CODE ASSKPDSRX3A1





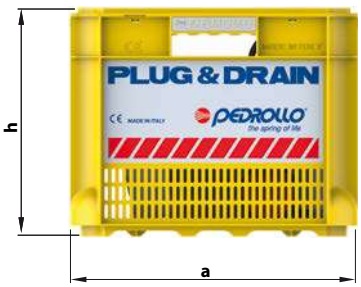


TECHNICAL SPECIFICATIONS		※ SERIES MODEL	※ AVAILABLE MODELS		
		TOP 2-FLOOR	TOP 3	RXm 2	RXm 3
SPECIFICATIONS	Pump type	Submersible	Submersible	Submersible	Submersible
	Pump control	Float	Float	Float	Float
MATERIALS	Pump body	Technopolymer	Technopolymer	**AISI 304** stainless steel	**AISI 304** stainless steel
	Impeller	Noryl™	Noryl™	**AISI 304** stainless steel	**AISI 304** stainless steel
	Mechanical seal	Ceramic/Graphite/NBR	Ceramic/Graphite/NBR	Ceramic/Graphite/NBR	Ceramic/Graphite/NBR
PERFORMANCE	Draining capability from the bottom	**2 mm**	**14 mm**	**14 mm**	**14 mm**
	Maximum depth of immersion	**3 m**	**3 m**	**10 m**	**10 m**
	Maximum size of suspended solids	**2 mm**	**10 mm**	**10 mm**	**10 mm**
FITTINGS	Pump connections Outlet port	**1 ¼" M**	**1 ¼" M**	**1 ¼" F**	**1 ¼" F**
MOTOR ELECTRIC	Typology	Asynchronous (with automatic reset thermal protector)	Asynchronous (with automatic reset thermal protector)	Asynchronous (with automatic reset thermal protector)	Asynchronous (with automatic reset thermal protector)
	Electric power supply	**~ 230 V / 50 Hz**	**~ 230 V / 50 Hz**	**~ 230 V / 50 Hz**	**~ 230 V / 50 Hz**
	Consumption	**450 W**	**700 W**	**450 W**	**800 W**
	CURRENT AT FULL LOAD	**2.0 A**	**3.2 A**	**2.0 A**	**3.6 A**
	Power cord (pre-wired)	**10 m with Schuko plug**	**10 m with Schuko plug**	**10 m with Schuko plug**	**10 m with Schuko plug**
	Service index	Continuous running duty (S1)	Continuous running duty (S1)	Continuous running duty (S1)	Continuous running duty (S1)

DIMENSIONS AND WEIGHT

TYPE	DIMENSIONS mm			kg*
	a	b	h	
PLUG & DRAIN - TOP 2-FLOOR	400	300	320	10.5
PLUG & DRAIN - TOP 3	400	300	362	12.9
PLUG & DRAIN - RXm 2	400	300	362	11.6
PLUG & DRAIN - RXm 3	400	300	362	13.1

(* Total weight: pump, hose, fittings and box)





RX Submersible pumps for DRAINAGE

Clear waters
Domestic use
Civil use

※ **Pumps entirely made of stainless steel**



PERFORMANCE RANGE

- Flow rate up to **320 l/min** (19.2 m³/h)
- Head up to **20.5 m**

INSTALLATION AND USE

RX pumps are designed for efficiently draining **clear water** without abrasive particles. Their design ensures user-friendly operation and safe performance, thanks to complete motor cooling and a double shaft seal. Ideal for home and public applications, these pumps are perfect for permanent setups, quickly handling emergency situations like small floods in rooms, basements, and garages. They're also great for managing household wastewater from dishwashers and washing machines, as well as for sump emptying.

APPLICATION LIMITS

- Maximum operating depth below water level up to **10 m** (with an appropriately sized power cable)
- Liquid temperature up to **+50 °C** and up to +90 °C for short bursts (up to 3 minutes max) for intermittent service
- Capable of processing suspended solids up to **Ø 10 mm**
- Draining capability:
  - up to **14 mm** from the bottom for RX 1-2-3
  - up to **25 mm** from the bottom for RX 4-5

PATENTS - TRADE MARKS - MODELS

- Patent No. EP2313658
- Patent No. IT0001428923

INCLUDES

※ **5 m** power cable
※ Float switch for single-phase versions

AVAILABLE UPON REQUEST

※ Mechanical seal options available
※ Pumps with **10 m** power cable
※ Different voltage requirements 60 Hz frequency

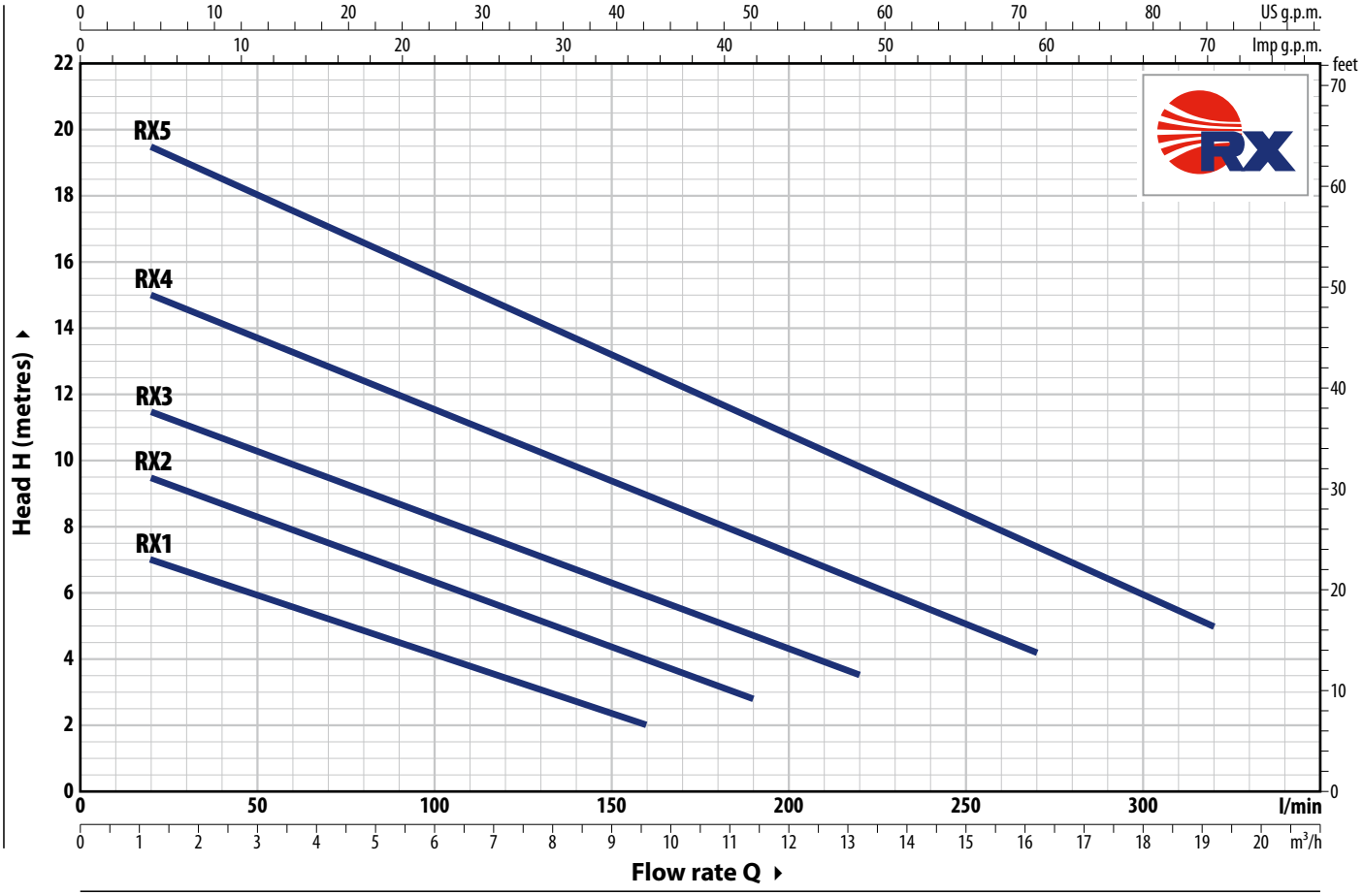
※ **RX-GM**" pumps with magnetic float switch (suitable for small sumps)



※ **RX-GM**

CURVES AND PERFORMANCE DATA

50 Hz



TYPE		POWER (P2)		Q	m³/h	0	1.2	3.6	6	7.8	9.6	11.4	13.2	14.4	16.2	18	19.2
Single-ph.	**Three-ph.**	**kW**	**HP**		l/min	**0**	**20**	**60**	**100**	**130**	**160**	**190**	**220**	**240**	**270**	**300**	**320**
RXm 1	**RX 1**	0.25	0.33			7.7	7	5.6	4	3	2						
RXm 2	**RX 2**	0.37	0.50			10.3	9.5	8	6.4	5.2	4	2.8					
RXm 3	**RX 3**	0.55	0.75	**H**	metres	12.3	11.5	10	8.3	7	6	4.7	3.5				
RXm 4	**RX 4**	0.75	1			16	15	13.3	11.5	10.3	9	7.7	6.4	5.5	4.2		
RXm 5	**RX 5**	1.1	1.5			20.5	19.5	17.6	15.6	14.2	12.7	11.3	9.8	9	7.4	6	5

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

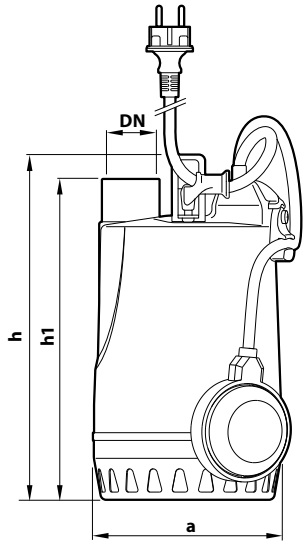
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

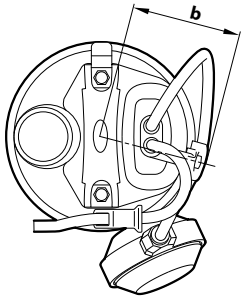
ABSORPTION

TYPE **Single-phase**	VOLTAGE **230 V**
RXm 1	1.5 A
RXm 2	2.0 A
RXm 3	3.6 A
RXm 4	5.9 A
RXm 5	7.5 A

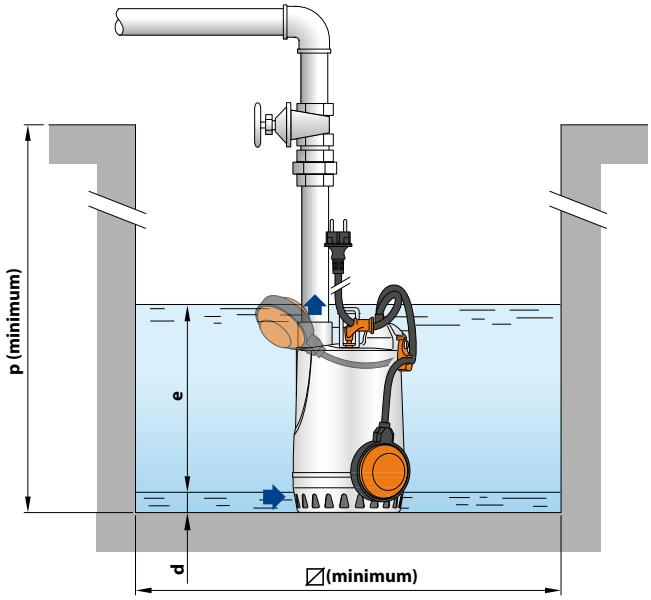
TYPE **Three-phase**	VOLTAGE **400 V**
RX 1	0.9 A
RX 2	**1.0** A
RX 3	1.6 A
RX 4	2.1 A
RX 5	3.5 A

DIMENSIONS AND WEIGHT



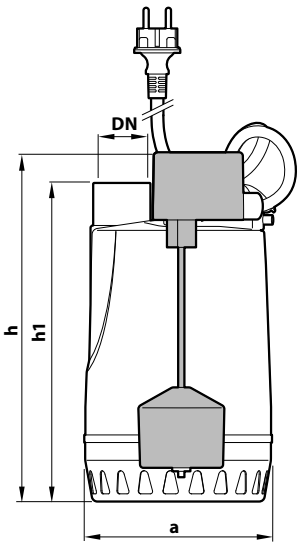


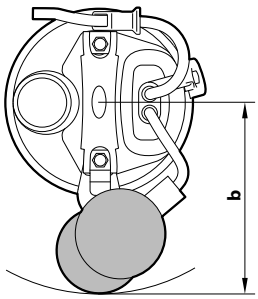
Typical installation



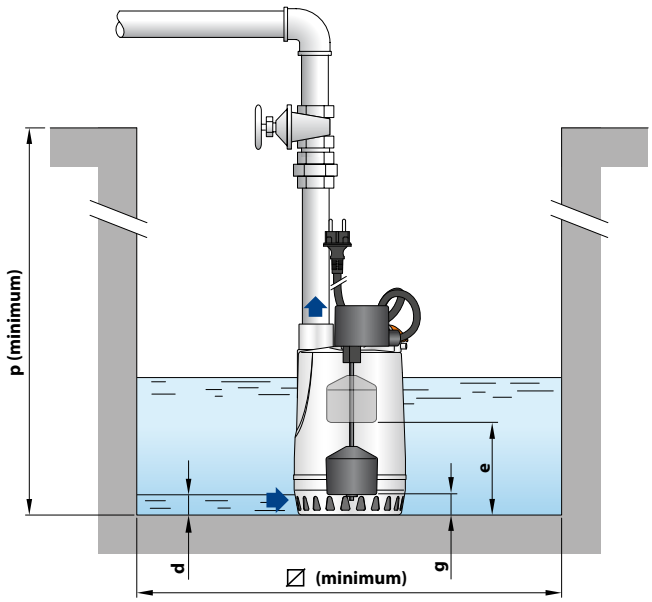
TYPE		PORT	DIMENSIONS mm								kg		PALLET CAPACITY
Single-phase	**Three-phase**	**DN**	a	b	h	h1	d	e	p	⍁	1~	3~	
RXm 1	**RX 1**	**1¼"**	147	84	268	243	14	adjustable	350	350	6.1	5.7	96
RXm 2	**RX 2**										6.1	5.7	96
RXm 3	**RX 3**				298	273					7.6	7.1	96

※ Version with 'GM' magnetic float switch





Typical installation



TYPE	PORT	DIMENSIONS mm									kg	PALLET CAPACITY
Single-phase	**DN**	a	b	h	h1	d	e	g (adjustable)	p	⍁	1~	
RXm 1-GM	**1¼"**	147	150	270	243	14	145	40	350	240	6.3	80
RXm 2-GM											6.3	80
RXm 3-GM				300	273		175	45			7.6	80

MATERIALS AND COMPONENTS

1	**Outer sleeve**	**AISI 304** stainless steel with ISO 228/1 threaded port
2	**Suction filter**	Stainless steel **AISI 304**
3	**Diffuser**	Stainless steel **AISI 304**
4	**Impeller**	Stainless steel **AISI 304**
5	**Motor sleeve**	Stainless steel **AISI 304**
6	**Motor cover**	Stainless steel **AISI 304**
7	**Motor shaft**	Stainless steel **AISI 431**

8 Double shaft seal with interposed oil chamber

Seal	Shaft	Materials
STA-12R	Ø 12 mm	Ceramic / Graphite / NBR

Shaft seal Ø 12 x Ø 19 x H 5 mm

9 Capacitor
(exclusive to single-phase models)

10 Electric motor

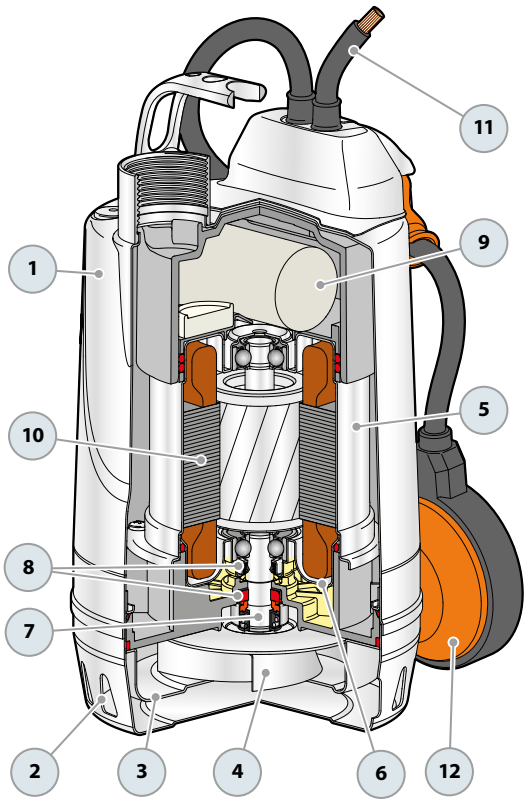
RXm: single-phase 230 V - 50 Hz with winding integrated thermal motor protection
RX: three-phase 400 V - 50 Hz
- Continuous running duty S1
- Insulation: Class F
- Protection rating IP X8

11 Power cord

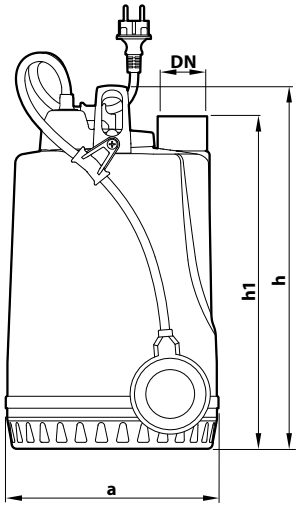
Type 'H07 RN-F
(Schuko plug exclusive to single-phase models)

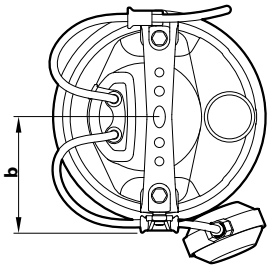
※ Standard length 5 metres

12 Float switch
(exclusive to single-phase models)

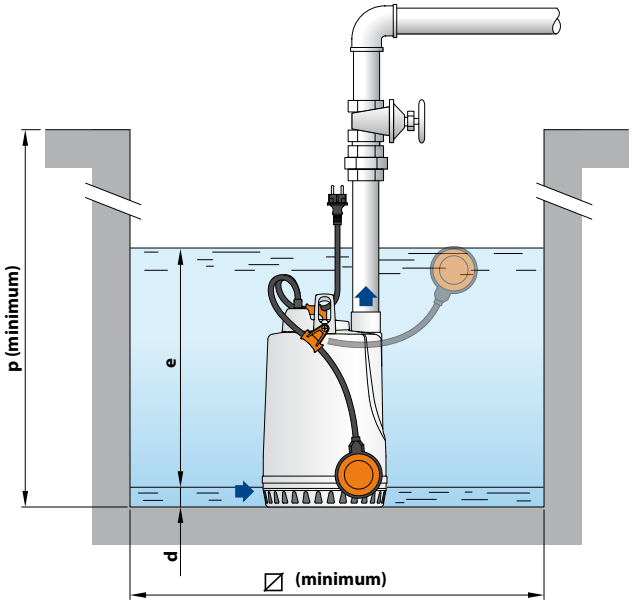


DIMENSIONS AND WEIGHT





Typical installation

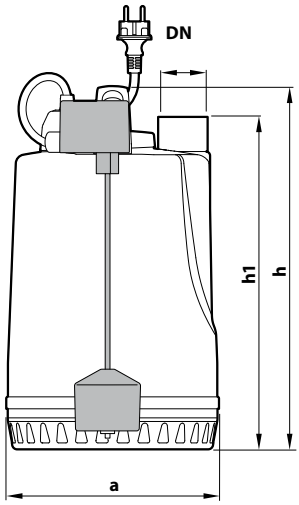


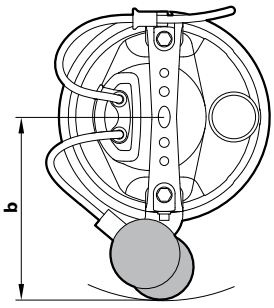
TYPE		PORT	DIMENSIONS mm								kg	
Single-phase	**Three-phase**	**DN**	a	b	h	h1	d	e	p	⧄	1~	3~
RXm 4	**RX 4**	**1½"**	220	118.5	368	336	25	adjustable	500	500	14.3	13.3
RXm 5	**RX 5**										15.5	14.4

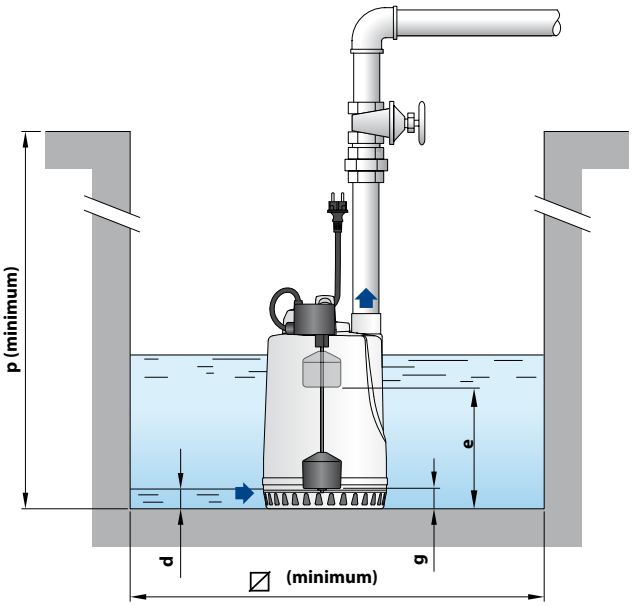
PALLET CAPACITY
45
45

※ Version with 'GM' magnetic float switch

Typical installation







TYPE	PORT	DIMENSIONS mm									kg
Single-phase	**DN**	a	b	h	h1	d	e	g (adjustable)	p	⧄	1~
RXm 4 - GM	**1½"**	220	186.5	368	336	25	250	50	500	300	14.5
RXm 5 - GM											15.6

PALLET CAPACITY
36
36

MATERIALS AND COMPONENTS

1	**Outer sleeve**	**AISI 304** stainless steel with ISO 228/1 threaded port
2	**Suction filter**	Stainless steel **AISI 304**
3	**Diffuser**	Stainless steel **AISI 304**
4	**Impeller**	Stainless steel **AISI 304**
5	**Motor sleeve**	Stainless steel **AISI 304**
6	**Motor cover**	Stainless steel **AISI 304**
7	**Motor shaft**	Stainless steel **AISI 431**

8 Double mechanical seal with interposed 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

9 Capacitor
(exclusive to single-phase models)

10 Electric motor

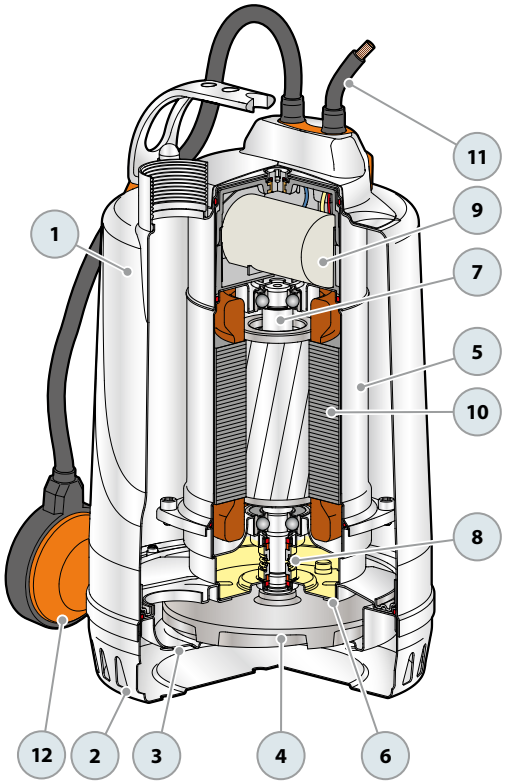
RXm: single-phase 230 V - 50 Hz with winding integrated thermal motor protection
RX: three-phase 400 V - 50 Hz
- Continuous running duty S1
- Insulation: Class F
- Protection rating IP X8

11 Power cord

Type 'H07 RN-F
(Schuko plug exclusive to single-phase models)

※ Standard length 5 metres

12 Float switch
(exclusive to single-phase models)



RX-VORTEX Submersible pumps for DRAINAGE

Dirty water
Domestic use
Civil use

※ All stainless steel pumps



PERFORMANCE RANGE

- Flow rate up to **380 l/min** (22.8 m³/h)
- Head up to **12.8 m**

INSTALLATION AND USE

RX-VORTEX pumps excel in draining **dirty water**, featuring designs that ensure reliable performance even during continuous operation, thanks to comprehensive motor cooling. Ideal for **domestic, civil, and industrial applications**, these pumps are perfect for removing dirty water containing suspended solids.

APPLICATION LIMITS

- Maximum operating depth below water level up to **10 m** (with an appropriately sized power cable)
- Liquid temperature up to **+50 °C** and up to **+90 °C** for short bursts (up to 3 minutes max) for intermittent service
- Suspended solids transfer:
  - up to **Ø 20 mm** for RX 2/20, RX 3/20
  - up to **Ø 40 mm** for RX 4/40, RX 5/40
- Draining capability:
  - up to **25 mm** from the bottom for RX 2/20, RX 3/20
  - up to **50 mm** from the bottom for RX 4/40, RX 5/40

PATENTS - TRADE MARKS - MODELS

- Patent No. EP2313658
- Patent No. IT0001428923

INCLUDES

※ Power cable length **5 m**
※ Float switch for single-phase versions

AVAILABLE UPON REQUEST

※ Mechanical seal options available
※ Pumps with **10 m** power cable.
※ Different voltage requirements 60 Hz frequency

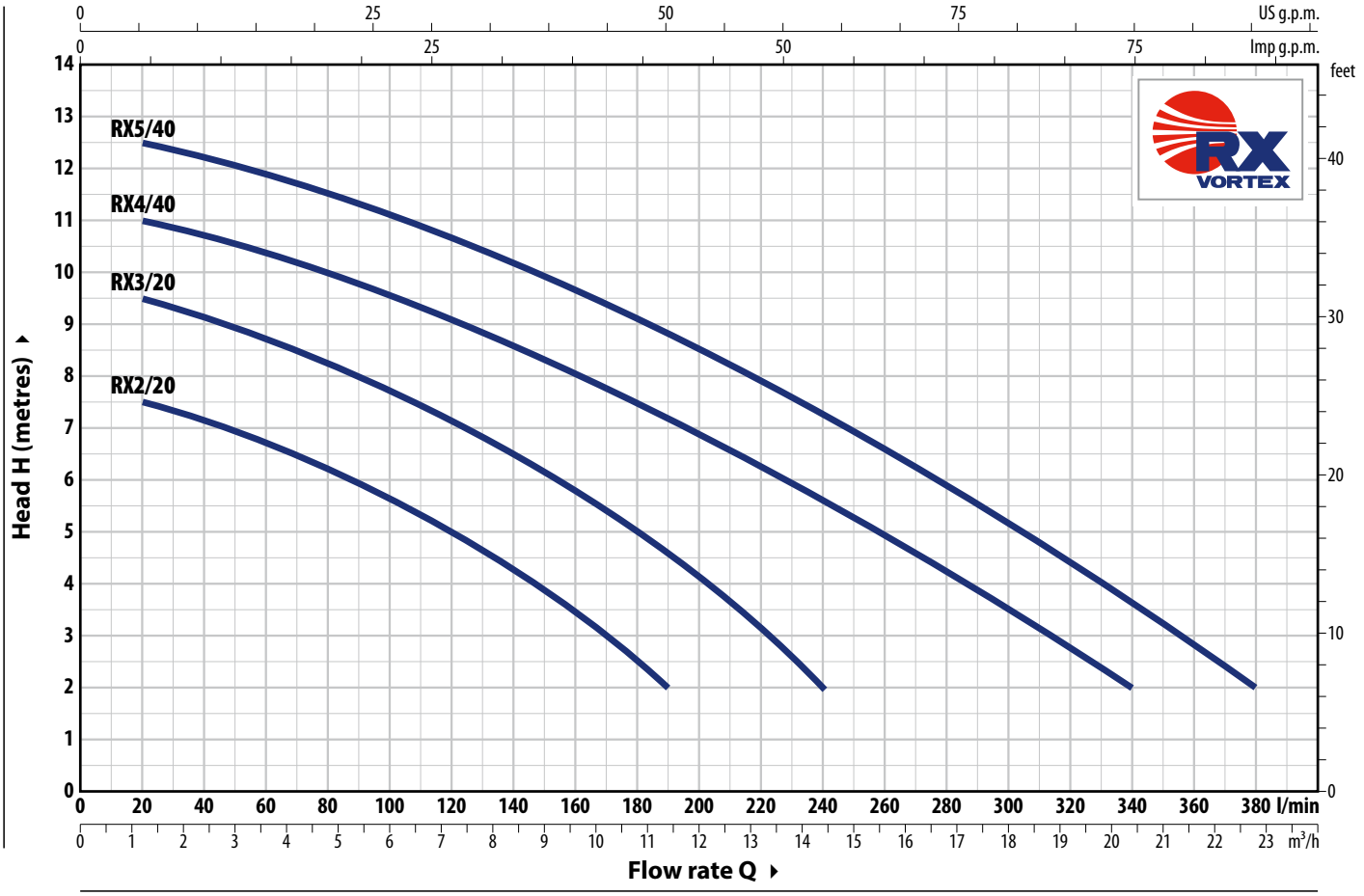
※ **RX-VORTEX GM**" pumps with magnetically operated float switch (suitable for small sumps)



RX-VORTEX GM

CURVES AND PERFORMANCE DATA

50 Hz



TYPE		POWER (P2)		Q												
Single-phase	Three-phase	kW	HP	m³/h	0	1.2	3.6	6.0	7.8	9.6	11.4	12.6	14.4	16.2	18.0	20.4	22.8
				l/min	**0**	**20**	**60**	**100**	**130**	**160**	**190**	**210**	**240**	**270**	**300**	**340**	**380**
RXm 2/20	**RX 2/20**	0.37	0.50	**H** metres	8	7.5	6.7	5.6	4.7	3.5	2						
RXm 3/20	**RX 3/20**	0.55	0.75		10	9.5	8.7	7.7	6.8	5.8	4.5	3.6	2				
RXm 4/40	**RX 4/40**	0.75	1		11.3	11	10.3	9.5	8.8	8	7.2	6.6	5.7	4.7	3.6	2	
RXm 5/40	**RX 5/40**	1.1	1.5		12.8	12.5	11.8	11	10.4	9.7	8.8	8.3	7.3	6.3	5.3	3.7	2

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

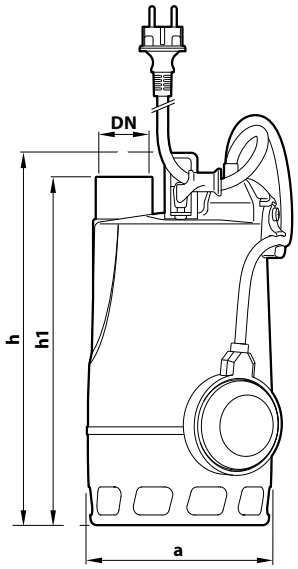
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

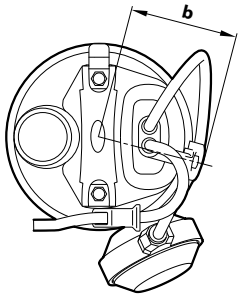
ABSORPTION

TYPE Single-phase	VOLTAGE **230 V**
RXm 2/20	2.3 A
RXm 3/20	3.4 A
RXm 4/40	5.2 A
RXm 5/40	6.5 A

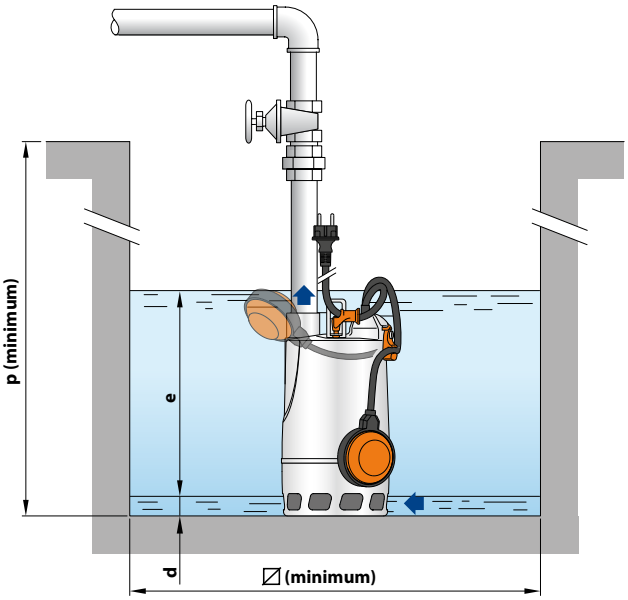
TYPE Three-phase	VOLTAGE **400 V**
RX 2/20	1.1 A
RX 3/20	1.5 A
RX 4/40	2.1 A
RX 5/40	3.1 A

DIMENSIONS AND WEIGHT



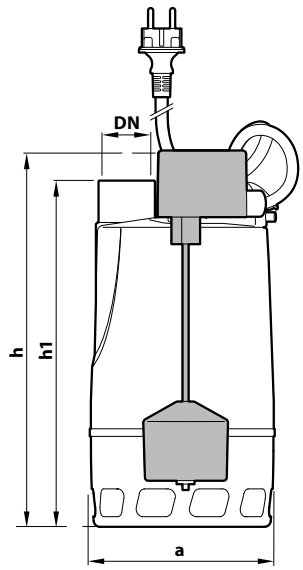


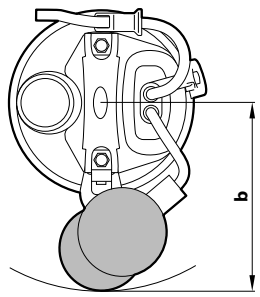
Typical installation



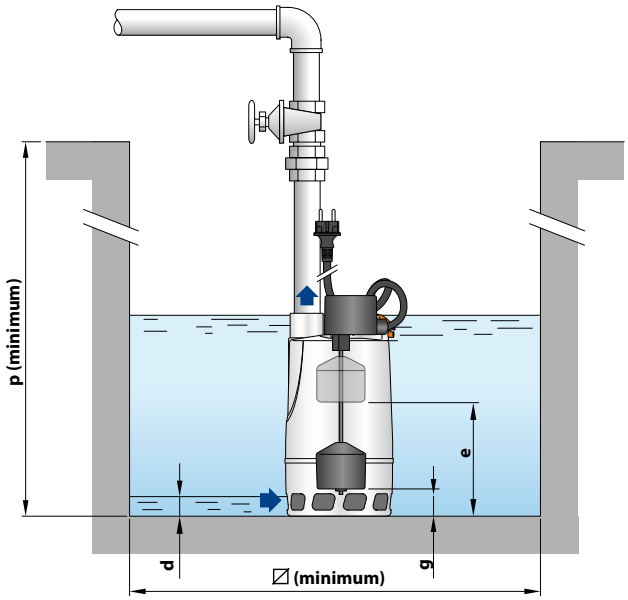
TYPE		PORT	DIMENSIONS mm								kg		PALLET CAPACITY
Single-ph.	**Three-ph**	**DN**	a	b	h	h1	d	e	p	⍁	1~	3~	
RXm 2/20	**RX 2/20**	**1¼"**	147	84	300	275	25	adjustable	350	350	6.2	5.8	96
RXm 3/20	**RX 3/20**				330	305					7.7	7.0	96

※ Version with 'GM' magnetic float switch





Typical installation



TYPE	PORT	DIMENSIONS mm									kg	PALLET CAPACITY
Single-phase	**DN**	a	b	h	h1	d	e	g (adjustable)	p	⍁	1~	
RXm 2/20-GM	**1¼"**	147	150	302	275	25	180	50	350	240	6.3	80
RXm 3/20-GM				332	305		210	80			7.9	80

MATERIALS AND COMPONENTS

1	**Outer sleeve**	**AISI 304** stainless steel with ISO 228/1 threaded port
2	**Suction filter**	Stainless steel **AISI 304**
3	**Diffuser**	Stainless steel **AISI 304**
4	**Impeller**	VORTEX in **AISI 304** stainless steel
5	**Motor sleeve**	Stainless steel **AISI 304**
6	**Motor cover**	Stainless steel **AISI 304**
7	**Motor shaft**	Stainless steel **AISI 431**

8 Double shaft seal with interposed oil chamber

Seal	Shaft	Materials
STA-12R SIC	Ø 12 mm	Ceramic / Silicon carbide / NBR

Shaft seal Ø 12 x Ø 19 x H 5 mm

9 Capacitor
(exclusive to single-phase models)

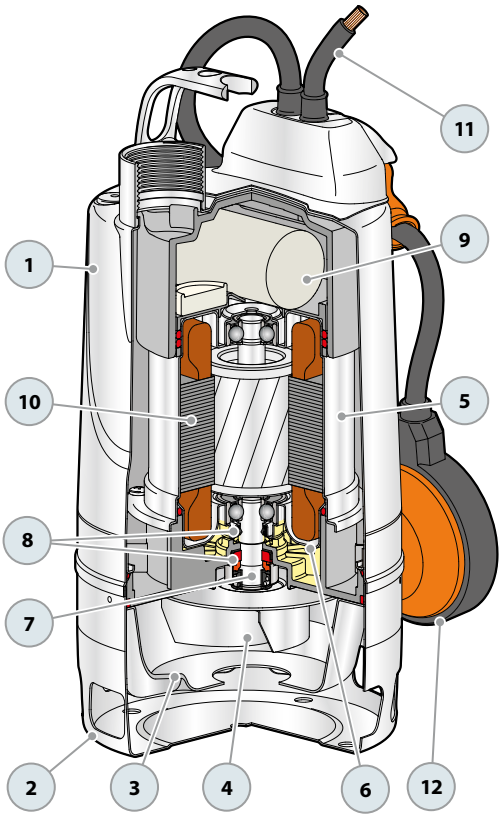
10 Electric motor

RXm: single-phase 230 V - 50 Hz with winding integrated thermal motor protection
RX: three-phase 400 V - 50 Hz
– Continuous running duty S1
– Insulation: Class F
– Protection rating IP X8

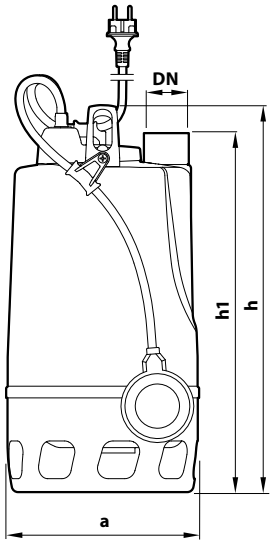
11 Power cord

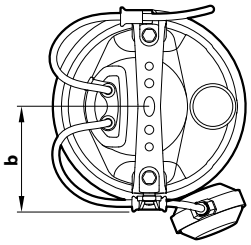
Type 'H07 RN-F
(Schuko plug exclusive to single-phase models)
※ Standard length 5 metres

12 Float switch
(exclusive to single-phase models)

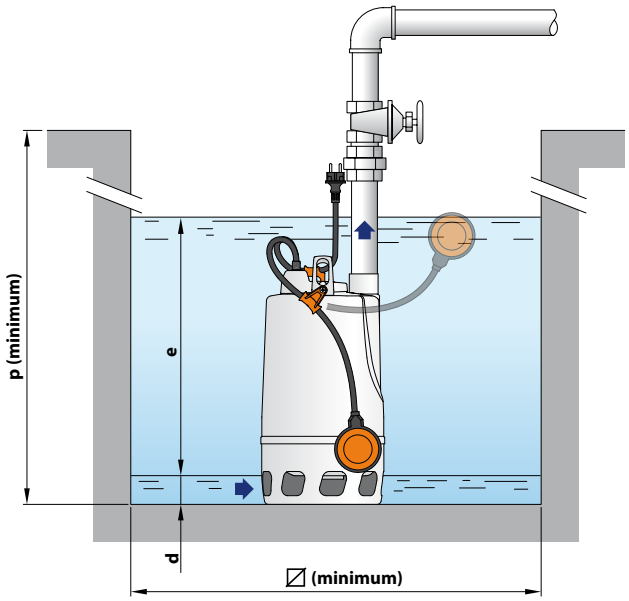


DIMENSIONS AND WEIGHT





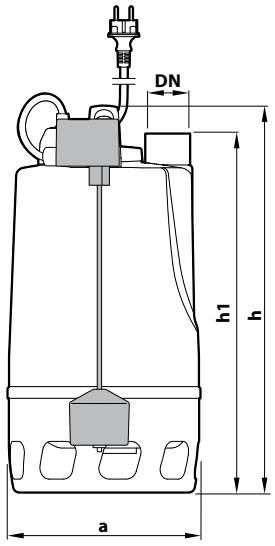
Typical installation

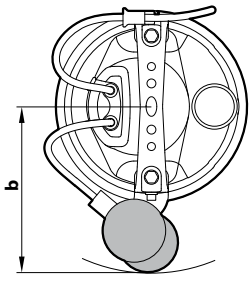


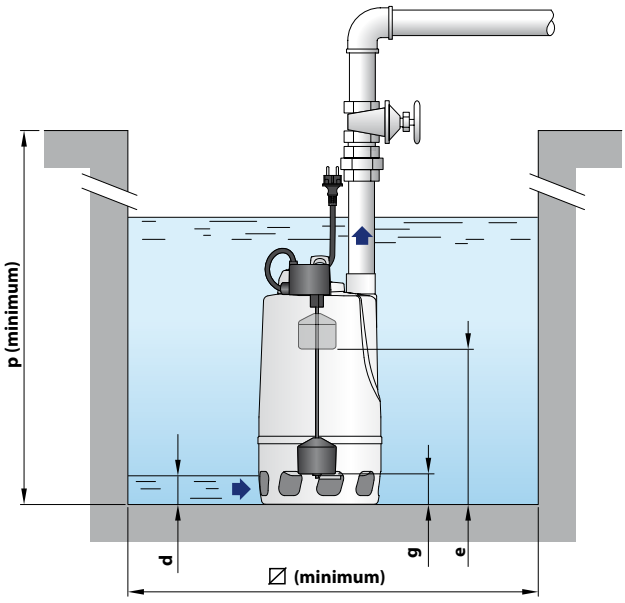
TYPE		PORT	DIMENSIONS mm								kg		PALLET CAPACITY
Single-phase	**Three-phase**	**DN**	a	b	h	h1	d	e	p	⍁	1~	3~	
RXm 4/40	**RX 4/40**	**1½"**	215	115	432	400	50	adjustable	500	500	14.8	13.9	45
RXm 5/40	**RX 5/40**										16.0	14.8	45

※ Version with 'GM' magnetic float switch

Typical installation







TYPE	PORT	DIMENSIONS mm									kg	PALLET CAPACITY
Single-phase	**DN**	a	b	h	h1	d	e	g (adjustable)	p	⍁	1~	
RXm 4/40 - GM	**1½"**	215	186.5	432	400	50	320	80	500	350	15.2	36
RXm 5/40 - GM											16.2	36

MATERIALS AND COMPONENTS

1	**Outer sleeve**	**AISI 304** stainless steel with ISO 228/1 threaded port
2	**Suction filter**	Stainless steel **AISI 304**
3	**Diffuser**	Stainless steel **AISI 304**
4	**Impeller**	VORTEX in **AISI 304** stainless steel
5	**Motor sleeve**	Stainless steel **AISI 304**
6	**Motor cover**	Stainless steel **AISI 304**
7	**Motor shaft**	Stainless steel **AISI 431**

8 Double mechanical seal with interposed 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

9 Capacitor
(exclusive to single-phase models)

10 Electric motor

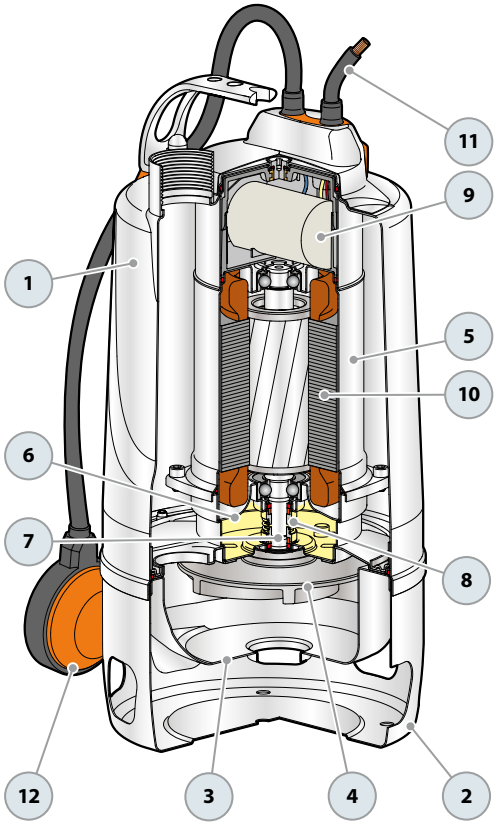
RXm: single-phase 230 V - 50 Hz with winding integrated thermal motor protection
RX: three-phase 400 V - 50 Hz

– Continuous running duty S1
– Insulation: Class F
– Protection rating IP X8

11 Power cord

Type 'H07 RN-F
(Schuko plug exclusive to single-phase models)
※ Standard length 5 metres

12 Float switch
(exclusive to single-phase models)



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 **17 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

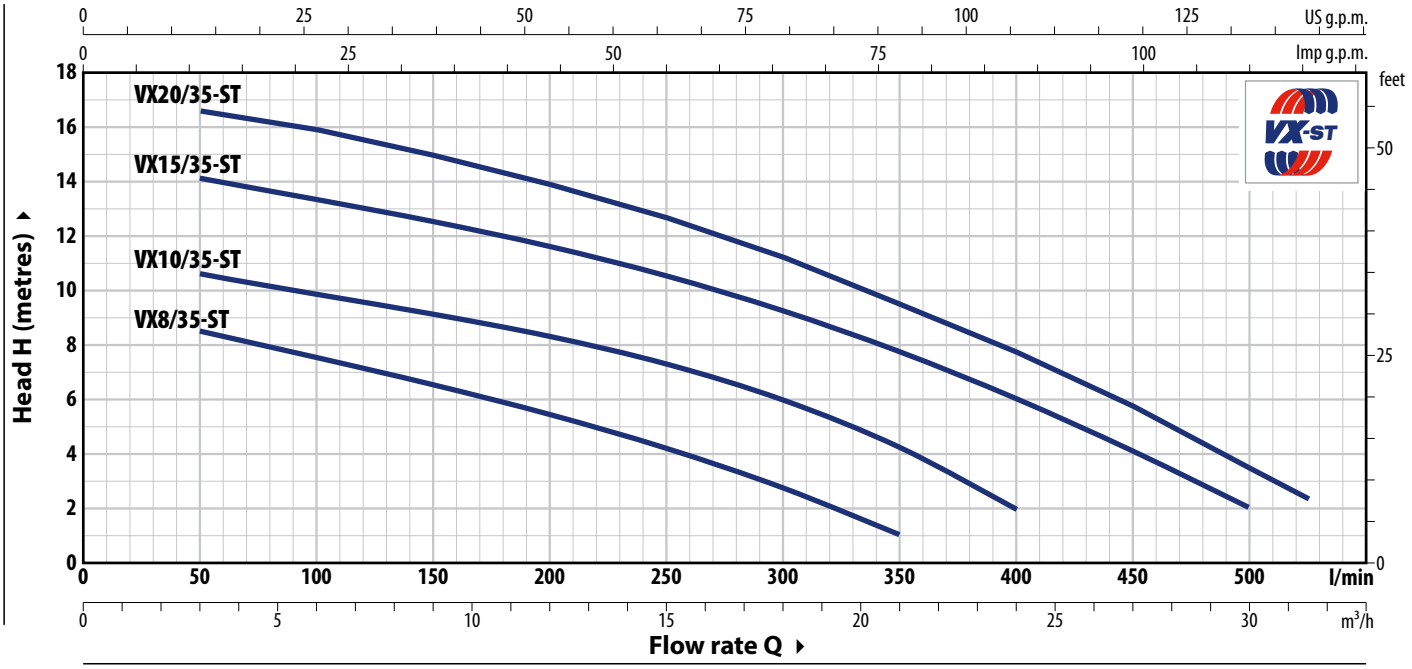
※ AISI 316L stainless steel pump shaft
※ Different voltage requirements 60 Hz frequency

PATENTS - TRADE MARKS - MODELS

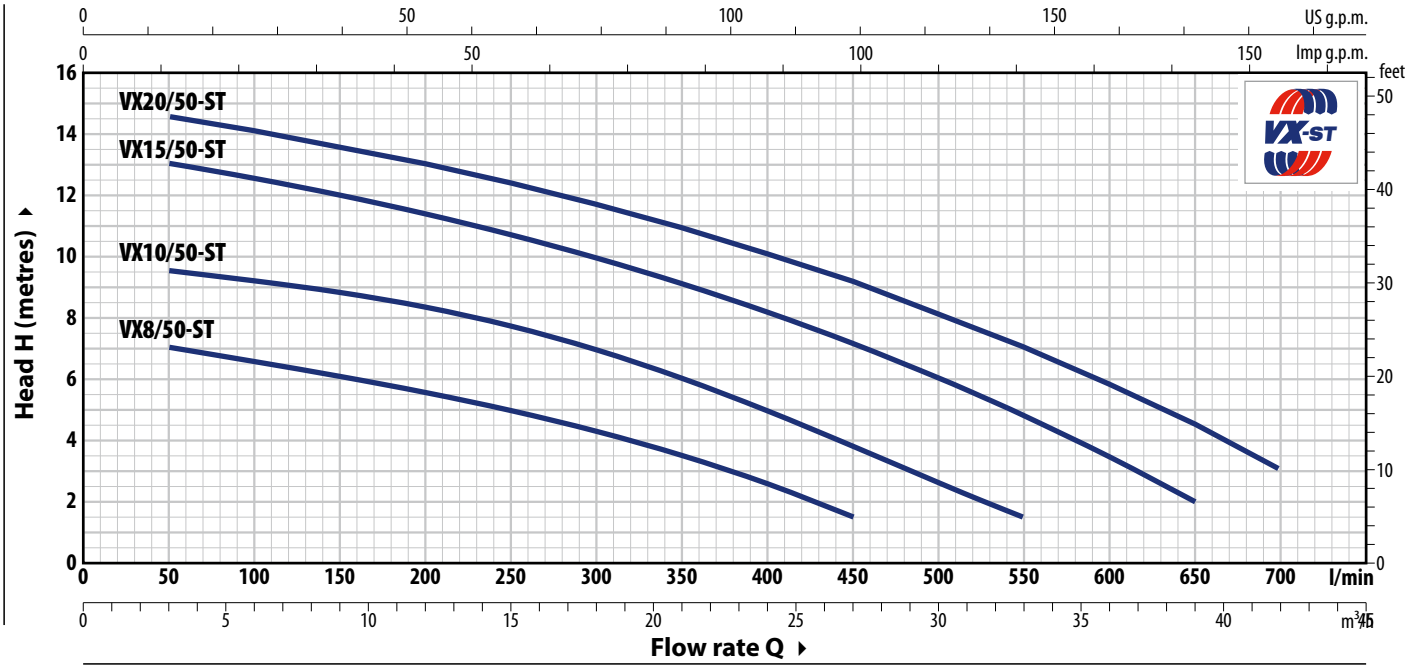
- Patent No. EP2313658
- Patent No. IT0001428923

CURVES AND PERFORMANCE DATA

50 Hz



TYPE		POWER (P2)		Q m³/h	0	3	6	12	18	21	24	27	30	31.5
Single-phase	**Three-phase**	**kW**	**HP**	l/min	**0**	**50**	**100**	**200**	**300**	**350**	**400**	**450**	**500**	**525**
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	2	
VXm 20/35-ST	**VX 20/35-ST**	1.5	2		17	16.5	16	14	11	9.5	7.7	5.7	3.5	2.5



TYPE		POWER (P2)		Q m³/h	0	3	6	12	18	24	27	30	33	36	39	42
Single-phase	**Three-phase**	**kW**	**HP**	l/min	**0**	**50**	**100**	**200**	**300**	**400**	**450**	**500**	**550**	**600**	**650**	**700**
VXm 8/50 -ST	**VX 8/50 -ST**	0.55	0.75	**H** metres	7.5	7	6.6	5.7	4.2	2.5	1.5					
VXm 10/50-ST	**VX 10/50-ST**	0.75	1		10	9.5	9.2	8.5	7	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	8	7	6	4.7	3.3	2	
VXm 20/50-ST	**VX 20/50-ST**	1.5	2		15	14.5	14	13	11.7	10	9	8.2	7	5.8	4.5	3

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

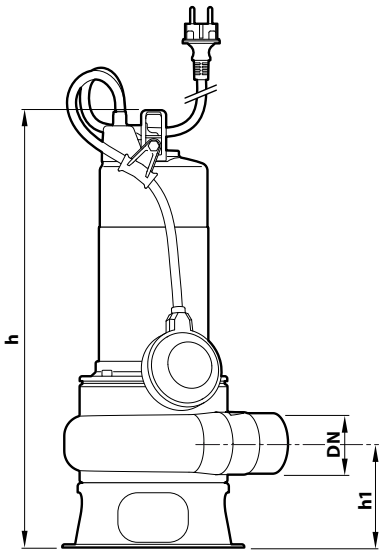
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

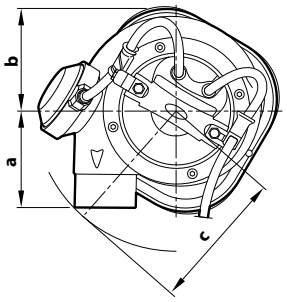
ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
VXm 8/35 -ST	4.3 A
VXm 10/35-ST	5.5 A
VXm 15/35-ST	7.0 A
VXm 20/35-ST	9.6 A
VXm 8/50 -ST	4.3 A
VXm 10/50-ST	5.5 A
VXm 15/50-ST	7.0 A
VXm 20/50-ST	9.6 A

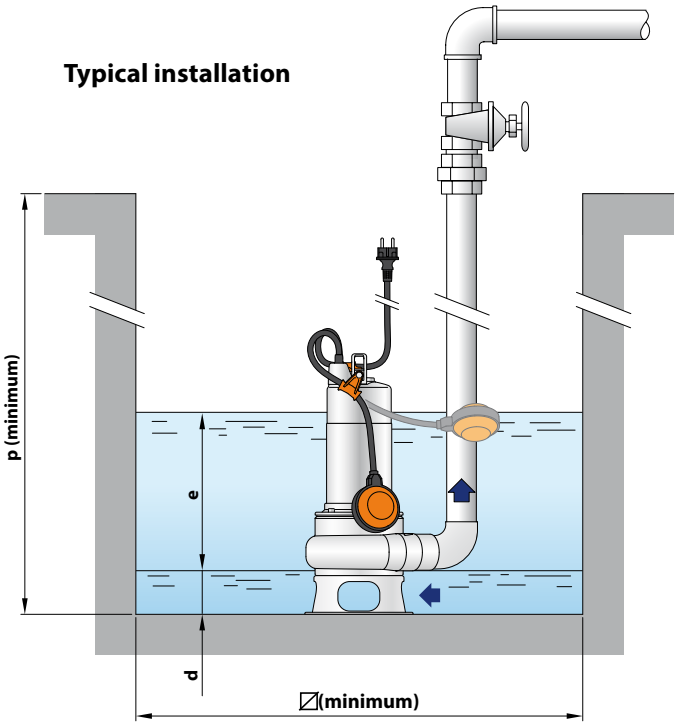
TYPE	VOLTAGE
Three-phase	**400 V**
VX 8/35 -ST	**1.6** A
VX 10/35-ST	**2.2** A
VX 15/35-ST	**2.7** A
VX 20/35-ST	**3.7** A
VX 8/50 -ST	**1.6** A
VX 10/50-ST	**2.2** A
VX 15/50-ST	**2.7** A
VX 20/50-ST	**3.7** A

DIMENSIONS AND WEIGHT





Typical installation



TYPE		PORT	Passage of solid bodies	DIMENSIONS mm									kg	
Single-phase	**Three-phase**	**DN**		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		NO. OF PUMPS
Single-phase	**Three-phase**	
VXm 8/35 -ST	**VX 8/35 -ST**	45
VXm 10/35-ST	**VX 10/35-ST**	45
VXm 15/35-ST	**VX 15/35-ST**	30
VXm 20/35-ST	**VX 20/35-ST**	30
VXm 8/50 -ST	**VX 8/50 -ST**	45
VXm 10/50-ST	**VX 10/50-ST**	45
VXm 15/50-ST	**VX 15/50-ST**	30
VXm 20/50-ST	**VX 20/50-ST**	30

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 230 V - 50 Hz with winding integrated thermal motor protection
VX-ST: three-phase 400 V - 50 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.

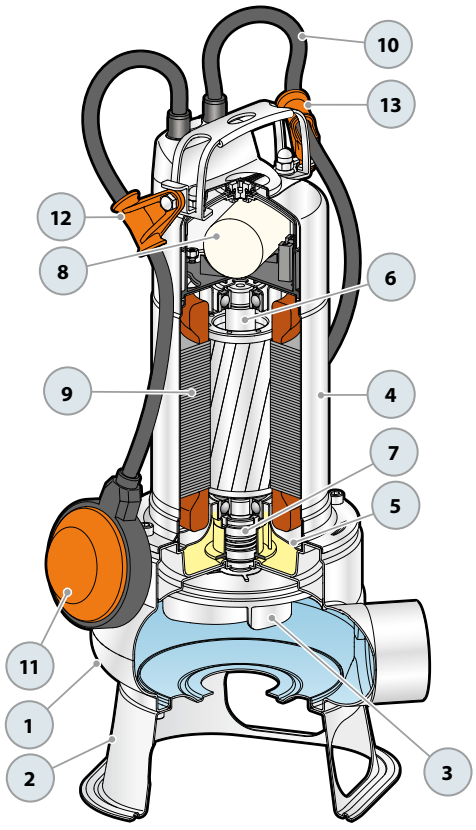
Type 'H07 RN-F' (Schuko plug exclusive to single-phase models)

※ 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



Sewage
Domestic use
Civil use
Industrial use

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



※ Constructed entirely from stainless steel, BC-ST submersible pumps offer superior corrosion and abrasion.

PERFORMANCE RANGE

- Flow rate up to **850 l/min** (51 m³/h)
- Head up to **17 m**

INSTALLATION AND USE

BC-ST stainless steel submersible pumps are designed to drain dirty and **sewage water** in **domestic, civil, and industrial settings**. Featuring a **TWO-CHANNEL** impeller, they can efficiently pump liquids containing suspended solids up to 50 mm in diameter with short fibers and handle wastewater, sewage, surface water, and sludge-mixed water in residential properties.

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

※ The **TWO-CHANNEL** impeller provides excellent performance and high energy efficiency, generating increased pressure for pumping solids up to **50 mm** in diameter, making it the best choice for wastewater drainage.

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**
- Capable of processing suspended solids up to **Ø 50 mm**
- **Minimum immersion for continuous service:**
  – **290 mm for BC 10/50-ST**
  – **330 mm for BC 15/50-ST**
  – **360 mm for BC 20/50-ST**

AVAILABLE UPON REQUEST

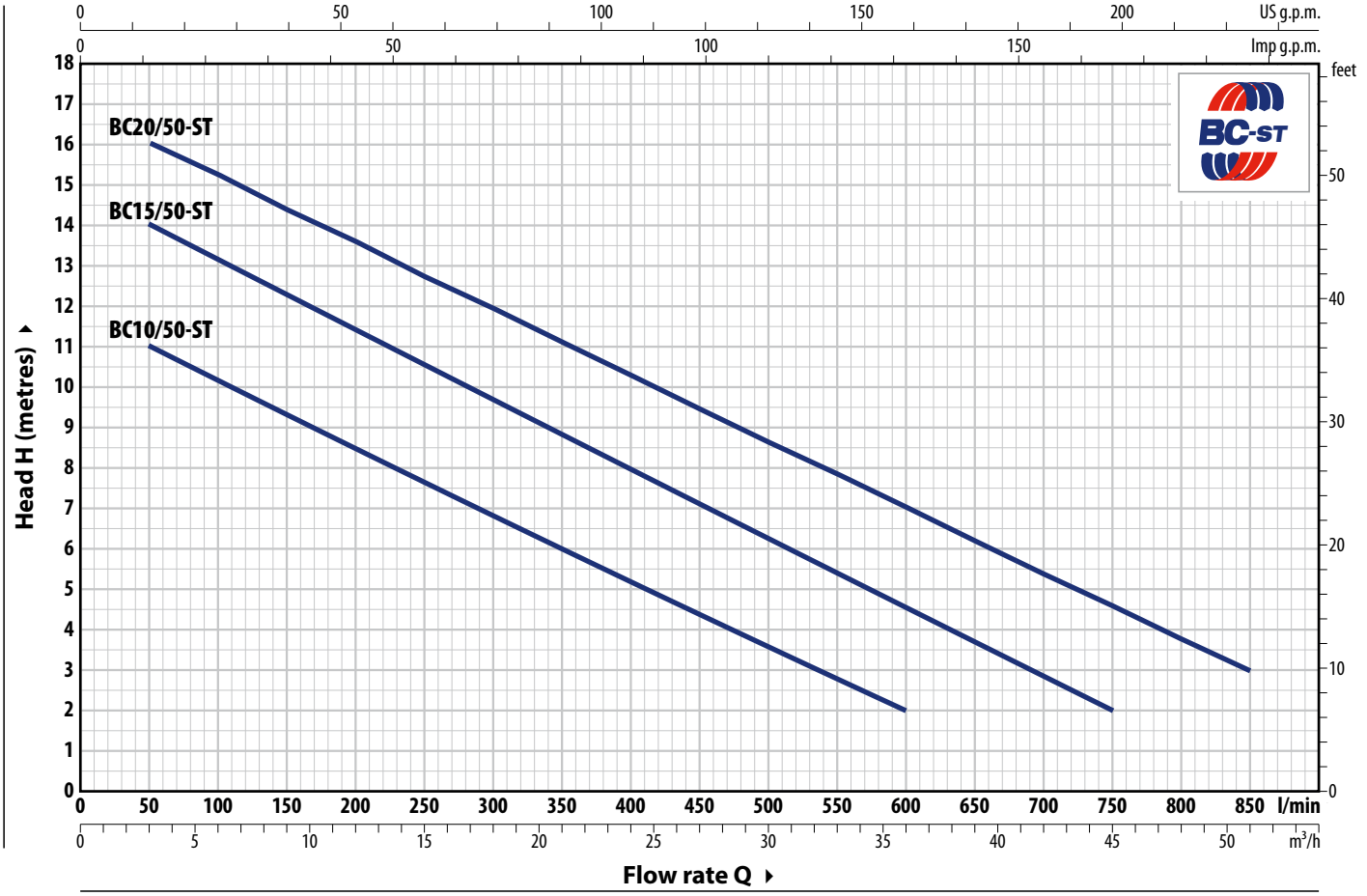
※ AISI 316L stainless steel pump shaft
※ Different voltage requirements 60 Hz frequency

PATENTS - TRADE MARKS - MODELS

- Patent No. EP2313658
- Patent No. IT0001428923

CURVES AND PERFORMANCE DATA

50 Hz



TYPE		POWER (P2)		Q	m³/h	0	3	6	12	18	24	30	36	42	45	51
Single-phase	**Three-phase**	**kW**	**HP**		l/min	**0**	**50**	**100**	**200**	**300**	**400**	**500**	**600**	**700**	**750**	**850**
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	3	2	
BCm 20/50-ST	**BC 20/50-ST**	1.5	2			17	16	15.3	13.5	12	10.3	8.6	7	5.3	4.5	3

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

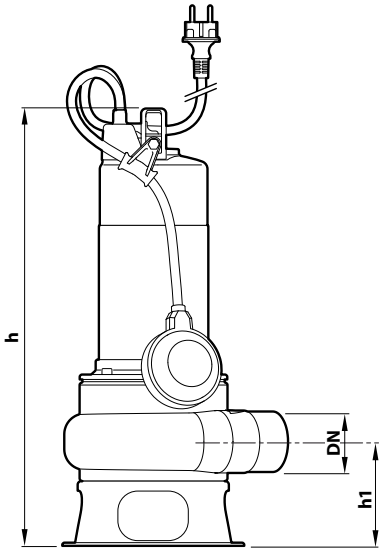
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

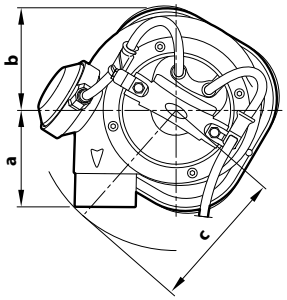
ABSORPTION

TYPE **Single-phase**	VOLTAGE **230 V**
BCm 10/50-ST	5.5 A
BCm 15/50-ST	8.0 A
BCm 20/50-ST	10.0 A

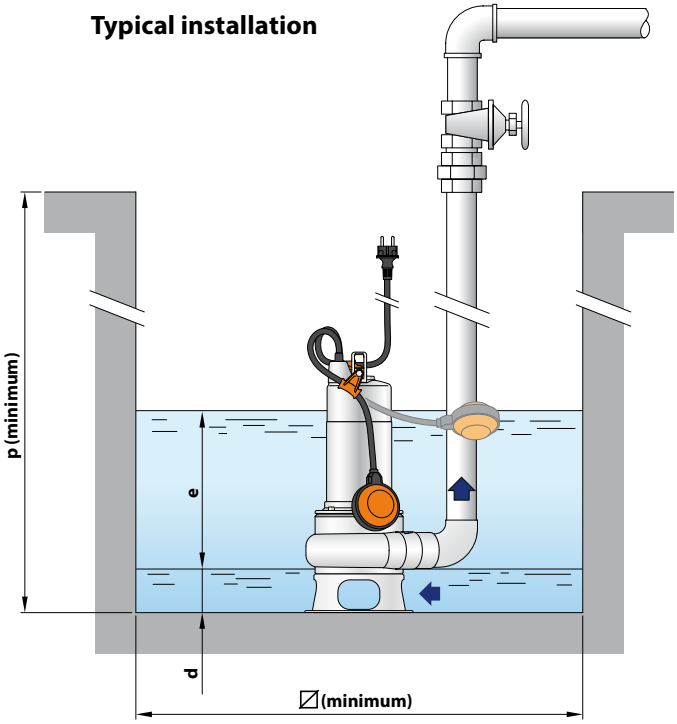
TYPE **Three-phase**	VOLTAGE **400 V**
BC 10/50-ST	2.2 A
BC 15/50-ST	3.1 A
BC 20/50-ST	3.9 A

DIMENSIONS AND WEIGHT





Typical installation



TYPE		PORT	Passage of solid bodies	DIMENSIONS mm									kg	
Single-phase	**Three-phase**	**DN**		a	b	c	h	h1	d	e	p	⍁	1~	3~
BCm 10/50-ST	**BC 10/50-ST**	**2"**	**Ø 50 mm**	102	95	145	450	107	60	adjustable	500	500	13.4	12.2
BCm 15/50-ST	**BC 15/50-ST**						483						16.0	14.4
BCm 20/50-ST	**BC 20/50-ST**						513						18.2	16.0

PALLET CAPACITY

TYPE		NO. OF PUMPS
Single-phase	**Three-phase**	
BCm 10/50-ST	**BC 10/50-ST**	45
BCm 15/50-ST	**BC 15/50-ST**	30
BCm 20/50-ST	**BC 20/50-ST**	30

MATERIALS AND COMPONENTS

1	**Pump body**	**AISI 304** stainless steel with ISO 228/1 threaded port
2	**Base**	Stainless steel **AISI 304**
3	**Impeller**	TWO-CHANNEL type in micro-cast **AISI 304** stainless steel.
4	**Motor sleeve**	Stainless steel **AISI 304**
5	**Motor cover**	**AISI 304** stainless steel for BC 10/50-ST Cast iron with cataphoresis treatment for BC 15/50-ST, BC 20/50-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

BCm-ST: single-phase 230 V - 50 Hz with winding integrated thermal motor protection
BC-ST: three-phase 400 V - 50 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.

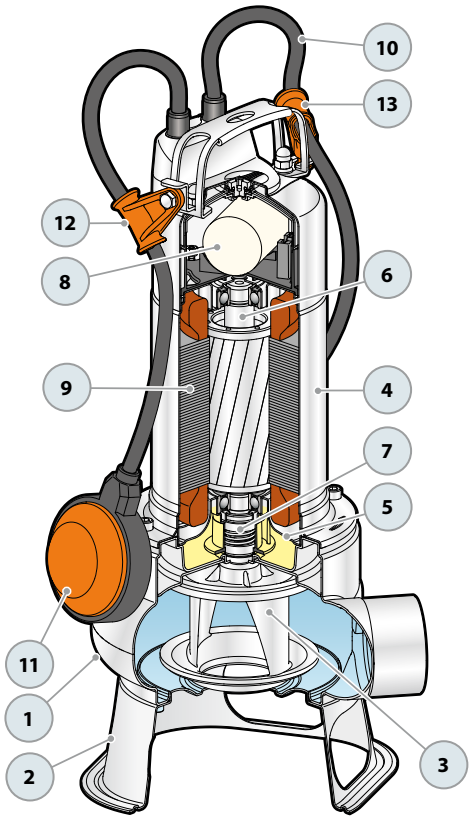
Type 'H07 RN-F' (Schuko plug exclusive to single-phase models)

※ 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



SEWAGE LIFTING SYSTEM KIT VX-ST - BC-ST

VERSION WITH HORIZONTAL DELIVERY AND ¾" 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 ¾" 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 ¾ **"** guide tubes	CODE 859SV340INTFA



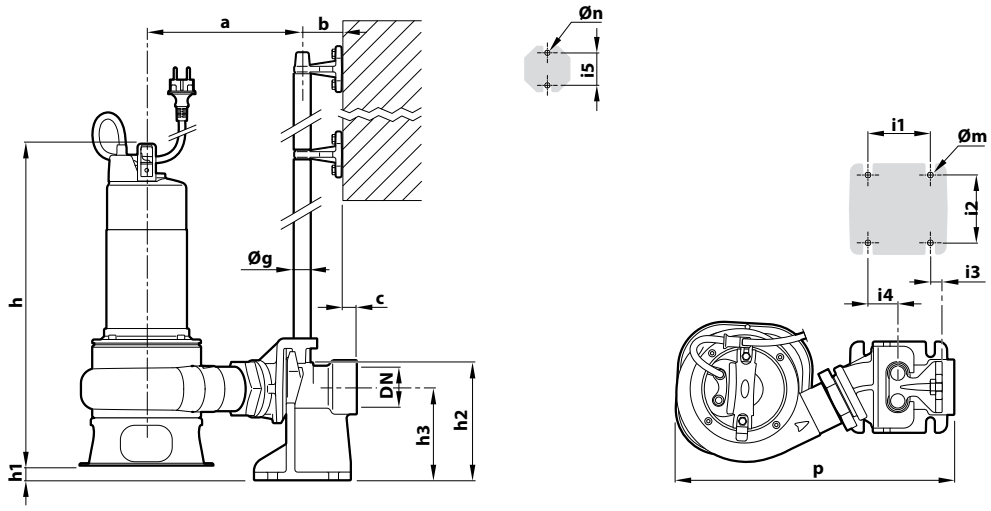
To ensure stability, insert a support every 2 metres along the guide tube

GUIDE TUBE (AISI 304 stainless steel)

※ 2 metres Ø ¾" guide tube	CODE 54SARTG0052F
※ 3 metres Ø ¾" guide tube	CODE 54SARTG0053F
※ 6 metres Ø ¾" guide tube	CODE 54SARTG0056F

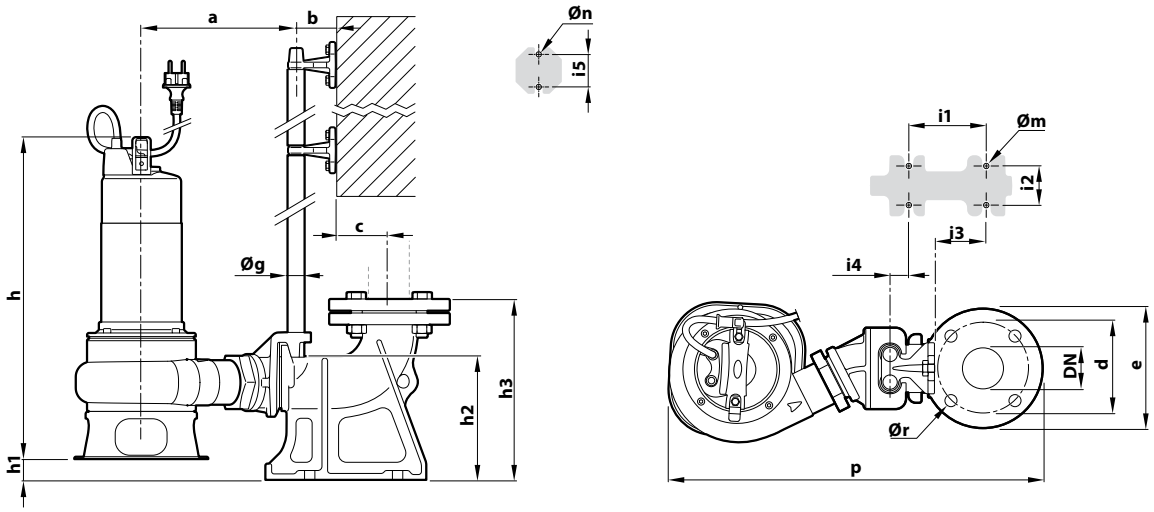


DIMENSIONS (Version with horizontal outlet)



TYPE		Passage of solid bodies	PORT	DIMENSIONS mm															
Single-ph.	**Three-ph.**	mm	DN	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			372	435	23										
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"**					450											
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	PORT	DIMENSIONS mm																		
Single-ph.	**Three-ph.**	mm	DN	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	424	22	164	215	120	72	62	3	50	¾"	14	11	18
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					501	435	26											
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"**							450												
BCm 15/50 -ST	**BC 15/50 -ST**									483												
BCm 20/50 -ST	**BC 20/50 -ST**									513												

Sewage
Domestic use
Civil use
Industrial use

※ They are recommended when an pump of high efficiency, quality and durability is required



※ Constructed entirely from stainless steel, VX-MF submersible pumps offer superior corrosion and abrasion.

PERFORMANCE RANGE

- Flow rate up to **750 l/min** (45 m^3/h)
- Head up to **15.5 m**

INSTALLATION AND USE

The **VX-MF** micro-cast stainless steel submersible pumps are designed for demanding working conditions, ideal for sewage drainage in **domestic, civil, and industrial settings** where suspended solids are present, such as water mixed with sludge, groundwater, or surface 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-MF
  - up to **Ø 50 mm** for VX /50-MF
- **Minimum immersion for continuous service:**
  – 290 mm for VX 8-MF and VX 10-MF
  – 330 mm for VX 15-MF
  – 360 mm for VX 20-MF

AVAILABLE UPON REQUEST

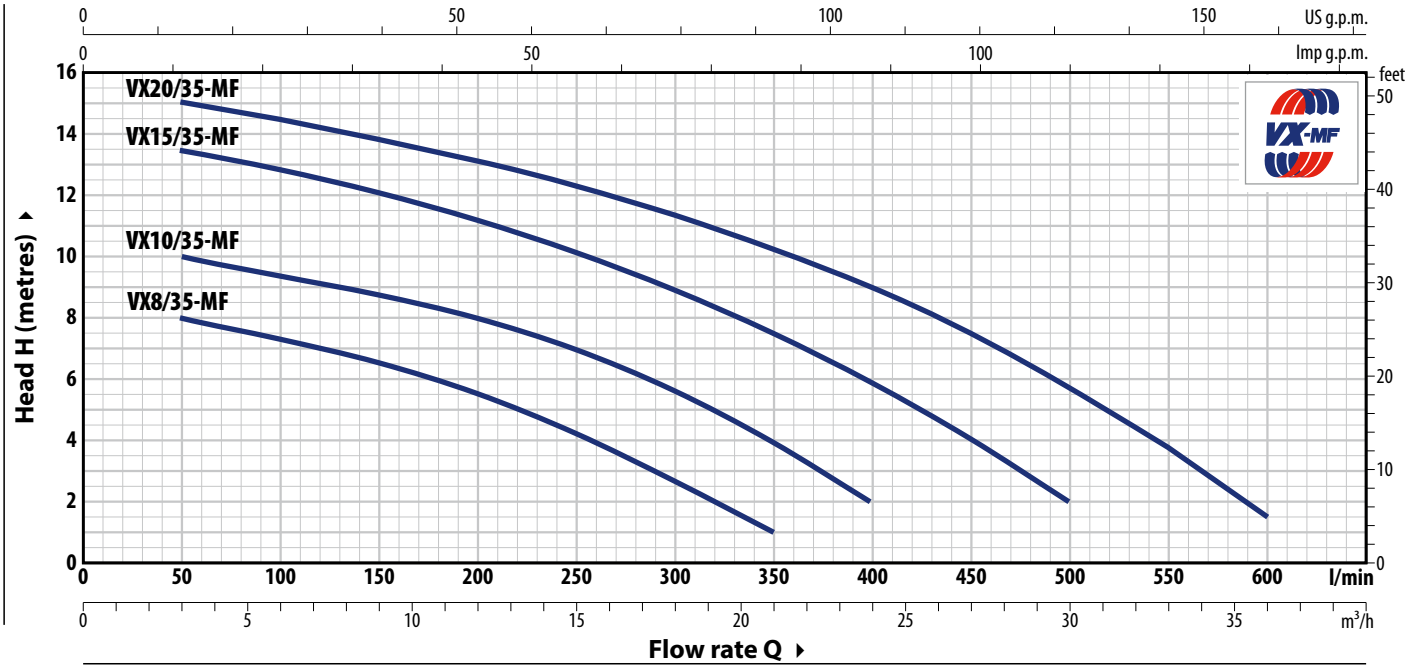
※ Different voltage requirements 60 Hz frequency

PATENTS - TRADE MARKS - MODELS

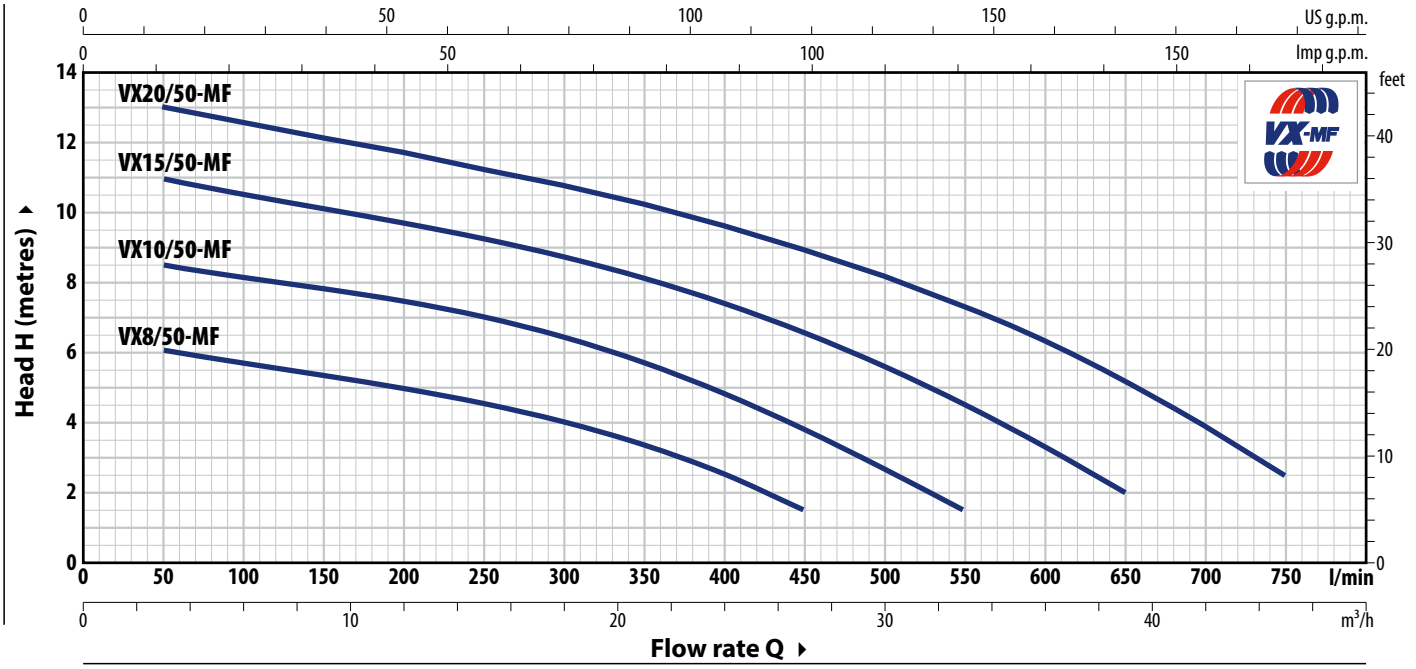
- Patent No. EP2313658
- Patent No. IT0001428923

CURVES AND PERFORMANCE DATA

50 Hz



TYPE		POWER (P2)		Q	m³/h	0	3	6	12	18	21	24	27	30	33	36
Single-phase	Three-phase	kW	HP		l/min	**0**	**50**	**100**	**200**	**300**	**350**	**400**	**450**	**500**	**550**	**600**
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 20/35-MF	VX 20/35-MF	1.5	2			15.5	15	14.5	13	11.5	10.3	9	7.5	5.8	3.8	1.5



TYPE		POWER (P2)		Q	m³/h	0	3	6	12	18	24	27	30	33	36	39	45
Single-phase	Three-phase	kW	HP		l/min	**0**	**50**	**100**	**200**	**300**	**400**	**450**	**500**	**550**	**600**	**650**	**750**
VXm 8/50 -MF	VX 8/50 -MF	0.55	0.75	H metres		6.5	6	5.8	5	4	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	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	7.5	6.5	5.5	4.5	3.5	2	
VXm 20/50-MF	VX 20/50-MF	1.5	2			13.5	13	12.5	11.5	10.7	9.5	9	8	7.5	6.5	5	2.5

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

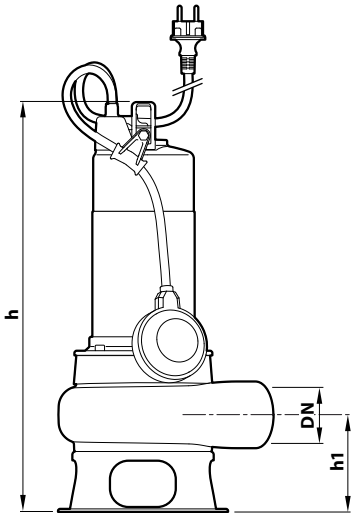
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

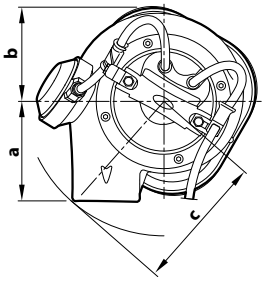
ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
VXm 8/35 -MF	4.3 A
VXm 10/35-MF	5.5 A
VXm 15/35-MF	7.0 A
VXm 20/35-MF	9.6 A
VXm 8/50 -MF	4.3 A
VXm 10/50-MF	5.5 A
VXm 15/50-MF	7.0 A
VXm 20/50-MF	9.6 A

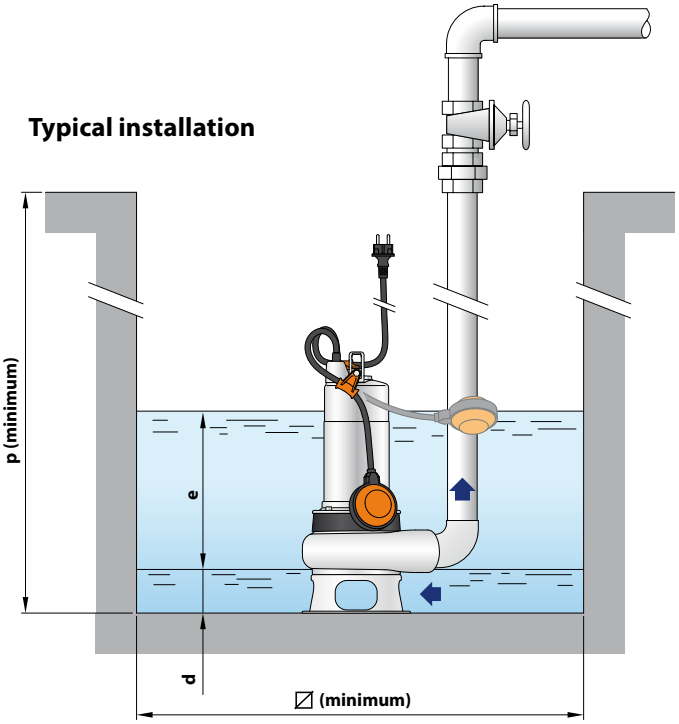
TYPE	VOLTAGE
Three-phase	**400 V**
VX 8/35 -MF	1.6 A
VX 10/35-MF	2.2 A
VX 15/35-MF	2.7 A
VX 20/35-MF	3.7 A
VX 8/50 -MF	1.6 A
VX 10/50-MF	2.2 A
VX 15/50-MF	2.7 A
VX 20/50-MF	3.7 A

DIMENSIONS AND WEIGHT





Typical installation



TYPE		PORT	Passage of solid bodies	DIMENSIONS mm									kg	
Single-phase	**Three-phase**	**DN**		a	b	c	h	h1	d	e	p	⍁	1~	3~
VXm 8/35 -MF	**VX 8/35 -MF**	**1½"**	**Ø 40 mm**	107	97	148	424	105	55	adjustable	500	500	12.9	11.8
VXm 10/35-MF	**VX 10/35-MF**						439						14.4	13.2
VXm 15/35-MF	**VX 15/35-MF**						472						17.2	15.6
VXm 20/35-MF	**VX 20/35-MF**						502						19.4	17.2
VXm 8/50 -MF	**VX 8/50 -MF**	**2"**	**Ø 50 mm**	112	97	149	435	107	60				13.2	12.1
VXm 10/50-MF	**VX 10/50-MF**						450						14.7	13.5
VXm 15/50-MF	**VX 15/50-MF**						483						17.5	15.9
VXm 20/50-MF	**VX 20/50-MF**						513						19.7	17.5

PALLET CAPACITY

TYPE		NO. OF PUMPS
Single-phase	**Three-phase**	
VXm 8/35 -MF	**VX 8/35 -MF**	45
VXm 10/35-MF	**VX 10/35-MF**	45
VXm 15/35-MF	**VX 15/35-MF**	30
VXm 20/35-MF	**VX 20/35-MF**	30
VXm 8/50 -MF	**VX 8/50 -MF**	45
VXm 10/50-MF	**VX 10/50-MF**	45
VXm 15/50-MF	**VX 15/50-MF**	30
VXm 20/50-MF	**VX 20/50-MF**	30

MATERIALS AND COMPONENTS

1	**Pump body**	Micro-cast **AISI 316L** 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**	**AISI 304** stainless steel for VX 8-10 MF Cast iron with cataphoresis treatment for VX 15-20 MF
6	**Motor shaft**	Stainless steel **AISI 316L**

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-MF: single-phase 230 V - 50 Hz with winding integrated thermal motor protection
VX-MF: three-phase 400 V - 50 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.

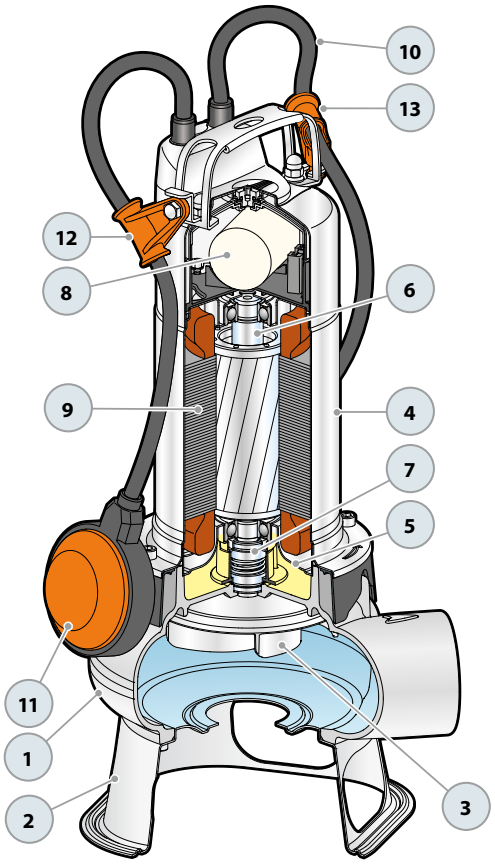
Type 'H07 RN-F
(Schuko plug exclusive to single-phase models)

※ 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



BC-MF Microcast stainless steel submersible pumps

TWO-CHANNEL

Sewage
Domestic use
Civil use
Industrial use

※ Experience high-efficiency, quality, and durability



※ Constructed entirely from micro-cast stainless steel, BC-MF submersible pumps offer superior corrosion and abrasion.

PERFORMANCE RANGE

- Flow rate up to **850 l/min** (51 m³/h)
- Head up to **17 m**

INSTALLATION AND USE

BC-MF stainless steel submersible pumps are designed to drain dirty and sewage water in domestic, civil, and industrial settings. Featuring a TWO-CHANNEL impeller, they can efficiently pump liquids containing suspended solids up to 50 mm in diameter with short fibers and handle wastewater, sewage, surface water, and sludge-mixed water in residential properties.

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

※ The **TWO-CHANNEL** impeller provides excellent performance and high energy efficiency, generating increased pressure for pumping solids up to **50 mm** in diameter, making it the best choice for wastewater drainage.

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**
- Capable of processing suspended solids up to **Ø 50 mm**
- **Minimum immersion for continuous service:**
  – **290 mm for BC 10/50-MF**
  – **330 mm for BC 15/50-MF**
  – **360 mm for BC 20/50-MF**

AVAILABLE UPON REQUEST

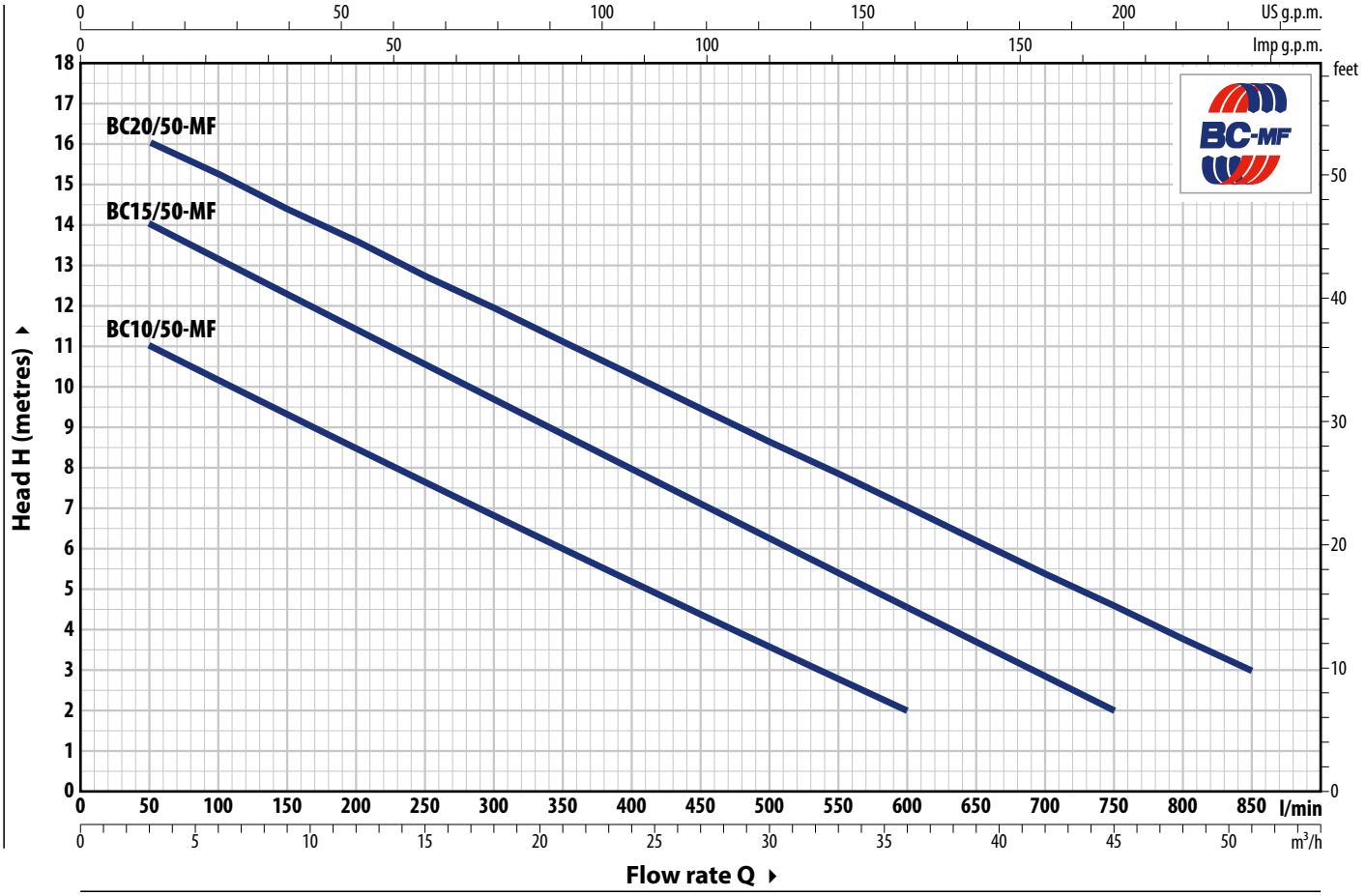
※ Different voltage requirements 60 Hz frequency

PATENTS - TRADE MARKS - MODELS

- Patent No. EP2313658
- Patent No. IT0001428923

CURVES AND PERFORMANCE DATA

50 Hz



TYPE		POWER (P2)		Q	m³/h	0	3	6	12	18	24	30	36	42	45	51
Single-phase	**Three-phase**	**kW**	**HP**		l/min	**0**	**50**	**100**	**200**	**300**	**400**	**500**	**600**	**700**	**750**	**850**
BCm 10/50-MF	**BC 10/50-MF**	0.75	1			12	11	10	8.5	7	5	3.6	2			
BCm 15/50-MF	**BC 15/50-MF**	1.1	1.5	**H**	metres	15	14	13	11.5	9.7	8	6.3	4.6	3	2	
BCm 20/50-MF	**BC 20/50-MF**	1.5	2			17	16	15.3	13.5	12	10.3	8.6	7.0	5.3	4.5	3

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

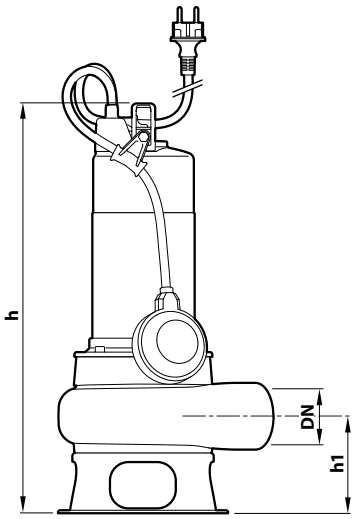
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

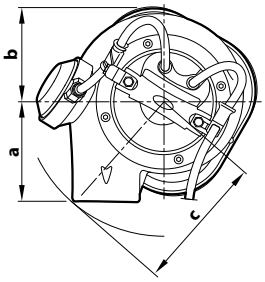
ABSORPTION

TYPE **Single-phase**	VOLTAGE **230 V**
BCm 10/50-MF	5.5 A
BCm 15/50-MF	8.0 A
BCm 20/50-MF	10.0 A

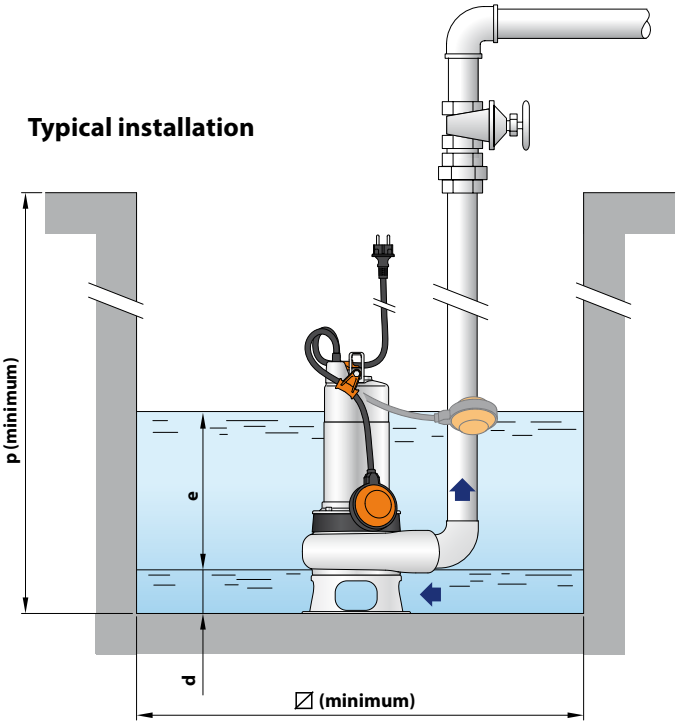
TYPE **Three-phase**	VOLTAGE **400 V**
BC 10/50-MF	2.2 A
BC 15/50-MF	3.1 A
BC 20/50-MF	3.9 A

DIMENSIONS AND WEIGHT





Typical installation



TYPE		PORT	Passage of solid bodies	DIMENSIONS mm									kg	
Single-phase	**Three-phase**	**DN**		a	b	c	h	h1	d	e	p	⍁	1~	3~
BCm 10/50-MF	**BC 10/50-MF**	**2"**	**Ø 50 mm**	102	95	145	450	107	60	adjustable	500	500	15.2	14.0
BCm 15/50-MF	**BC 15/50-MF**						483						17.8	16.2
BCm 20/50-MF	**BC 20/50-MF**						513						20.0	17.8

PALLET CAPACITY

TYPE		NO. OF PUMPS
Single-phase	**Three-phase**	
BCm 10/50-MF	**BC 10/50-MF**	45
BCm 15/50-MF	**BC 15/50-MF**	30
BCm 20/50-MF	**BC 20/50-MF**	30

MATERIALS AND COMPONENTS

1	**Pump body**	Micro-cast **AISI 316L** stainless steel with ISO 228/1 threaded port
2	**Base**	Stainless steel **AISI 304**
3	**Impeller**	TWO-CHANNEL type in micro-cast **AISI 304** stainless steel.
4	**Motor sleeve**	Stainless steel **AISI 304**
5	**Motor cover**	**AISI 304** stainless steel for BC 10/50-MF Cast iron with cataphoresis treatment for BC 15/50-MF, BC 20/50-MF
6	**Motor shaft**	Stainless steel **AISI 316L**

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

BCm-MF: single-phase 230 V - 50 Hz with winding integrated thermal motor protection
BC-MF: three-phase 400 V - 50 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.

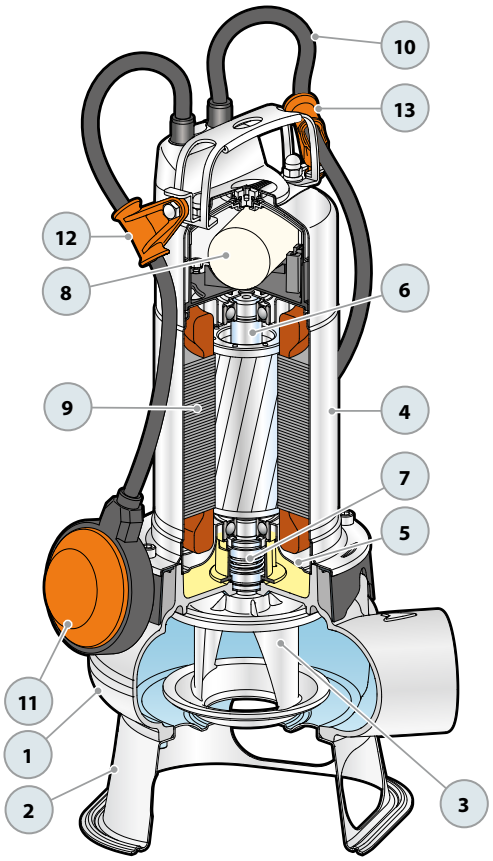
Type 'H07 RN-F' (Schuko plug exclusive to single-phase models)

※ 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



SEWAGE LIFTING SYSTEM KIT VX-MF - BC-MF

VERSION WITH HORIZONTAL DELIVERY AND ¾" GUIDE PIPES

For **VX /35-MF**	CODE ASSPVX35ST	DN **2"**
Per **VX /50-MF , BC /50-MF**	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 ¾" GUIDE PIPES

For **VX /35-MF**	CODE ASSPVX35STV	DN **2½"**
For **VX /50-MF, BC /50-MF**	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-MF**	CODE ASSFL005
※ For **VX /50-MF , BC /50-MF**	CODE ASSFL006



Complete with ring nut and gasket

GUIDE TUBE SUPPORT

※ For Ø ¾ **"** guide tubes	CODE 859SV340INTFA



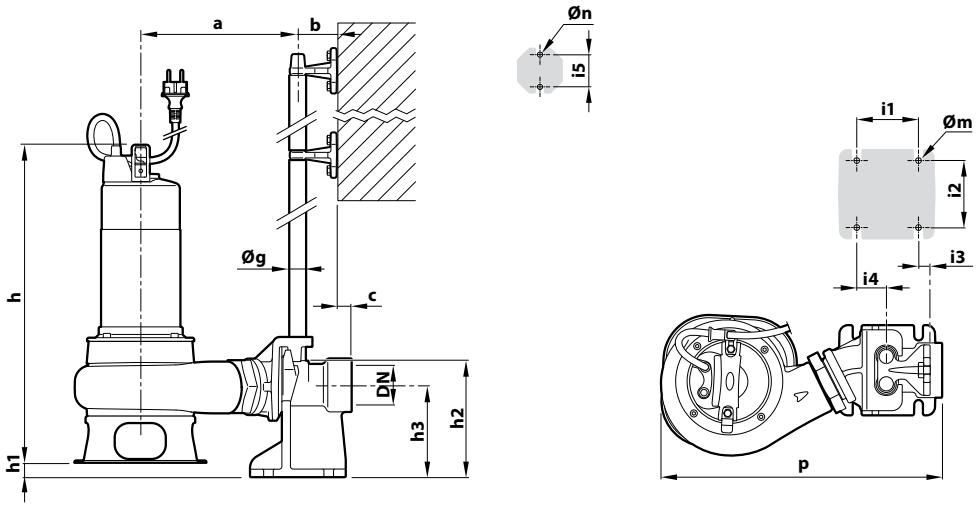
To ensure stability, insert a support every 2 metres along the guide tube

GUIDE TUBE (AISI 304 stainless steel)

※ 2 metres Ø ¾" guide tube	CODE 54SARTG0052F
※ 3 metres Ø ¾" guide tube	CODE 54SARTG0053F
※ 6 metres Ø ¾" guide tube	CODE 54SARTG0056F

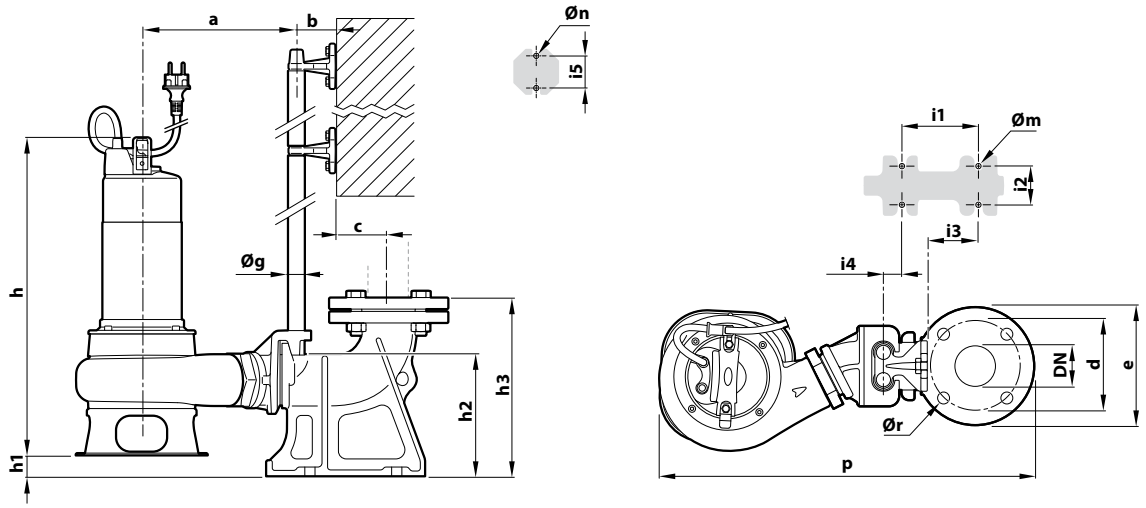


DIMENSIONS (Version with horizontal outlet)



TYPE		Passage of solid bodies	PORT	DIMENSIONS mm															
Single-phase	**Three-phase**	mm	DN	a	b	c	p	h	h1	h2	h3	i1	i2	i3	i4	i5	Øg	Øm	Øn
VXm 8/35 -MF	VX 8/35 -MF	**40**	**2"**	222	61	17	395	424	25	165	130	85	94	16	40	50	¾"	12	11
VXm 10/35 -MF	VX 10/35 -MF							439											
VXm 15/35 -MF	VX 15/35 -MF							472											
VXm 20/35 -MF	VX 20/35 -MF							502											
VXm 8/50 -MF	VX 8/50 -MF	**50**	**2"**	226			398	435	23										
VXm 10/50 -MF	VX 10/50 -MF							450											
VXm 15/50 -MF	VX 15/50 -MF							483											
VXm 20/50 -MF	VX 20/50 -MF							513											
BCm 10/50 -MF	BC 10/50 -MF	**50**	**2"**					450											
BCm 15/50 -MF	BC 15/50 -MF							483											
BCm 20/50 -MF	BC 20/50 -MF							513											

DIMENSIONS (Version with vertical delivery)



TYPE		Passage of solid bodies	PORT	DIMENSIONS mm																	
Single-phase	**Three-phase**	mm	DN	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"**	215	61	52	125	165	503	424	23	164	215	120	72	62	3	50	¾"	14	11	18
VXm 10/35 -MF	VX 10/35 -MF									439												
VXm 15/35 -MF	VX 15/35 -MF									472												
VXm 20/35 -MF	VX 20/35 -MF									502												
VXm 8/50 -MF	VX 8/50 -MF	**50**	**2½"**	217					507	435	21											
VXm 10/50 -MF	VX 10/50 -MF									450												
VXm 15/50 -MF	VX 15/50 -MF									483												
VXm 20/50 -MF	VX 20/50 -MF									513												
BCm 10/50 -MF	BC 10/50 -MF	**50**	**2½"**							450												
BCm 15/50 -MF	BC 15/50 -MF									483												
BCm 20/50 -MF	BC 20/50 -MF									513												

D Submersible pumps for drainage

Clear waters

Domestic use

Civil use



PERFORMANCE RANGE

- Flow rate up to **300 l/min** (18 m³/h)
- Head up to **26 m**

INSTALLATION AND USE

Designed to **drain clear** or slightly dirty water, **D**-Series pumps are ideal for **domestic and civil applications**, including basement and garage flood mitigation, swimming pool and tank drainage, and non-sewage wastewater disposal. Known for their reliability, these pumps excel in automated fixed installations.

INCLUDES

※ Power cable length:
- **5 m** for D8, D10, D20
- **10 m** for D30

※ 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**
- Capable of processing suspended solids up to **Ø 10 mm**
- Bottom drainage level up to **17 mm**
- **Minimum immersion for continuous service:**
  - 210 mm for D 8-10-20
  - 250 mm for D 30

AVAILABLE UPON REQUEST

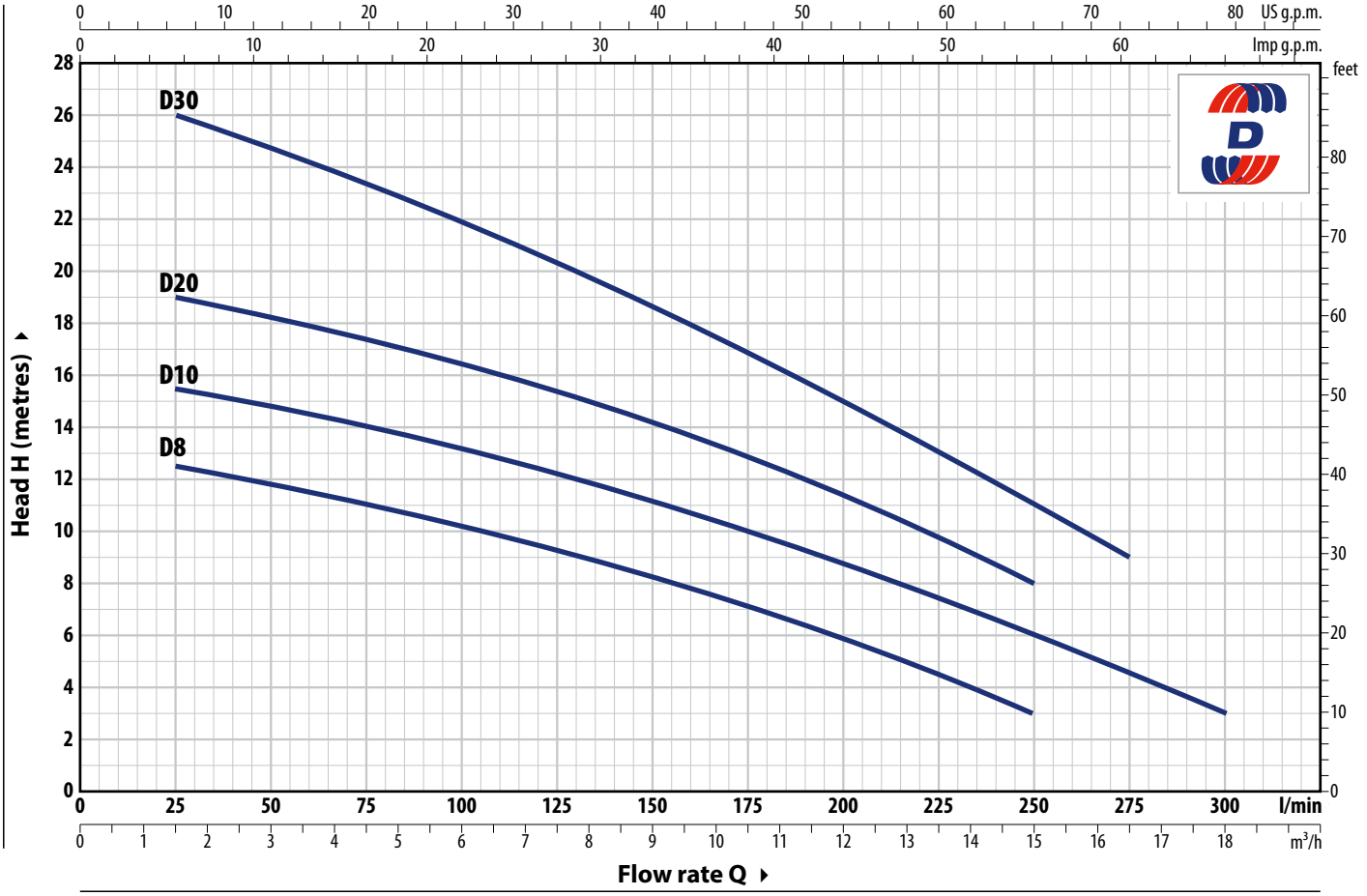
※ Pumps with **10 m** power cable.
※ Different voltage requirements 60 Hz frequency

PATENTS - TRADE MARKS - MODELS

- Patent No. EP2313658
- Patent No. IT0001428923

CURVES AND PERFORMANCE DATA

50 Hz



TYPE		POWER (P2)		Q												
Single-ph.	Three-ph.	kW	HP	m³/h	0	1.5	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.2	15.0	16.5	18.0
				l/min	**0**	**25**	**50**	**75**	**100**	**125**	**150**	**175**	**200**	**220**	**250**	**275**	**300**
Dm 8	**D 8**	0.55	0.75	**H** metres	13	12.5	12	11	10	9	8	7	6	4.7	3		
Dm 10	**D 10**	0.75	1		16	15.5	15	14	13.2	12.2	11.2	10	8.8	7.8	6	4.5	3
Dm 20	**D 20**	0.75	1		20	19	18.5	17.5	16.5	15.5	14.3	13	11.5	10	8		
Dm 30	**D 30**	1.1	1.5		26	26	25	23.5	22	20.5	18.7	17	15	13.5	11	9	

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

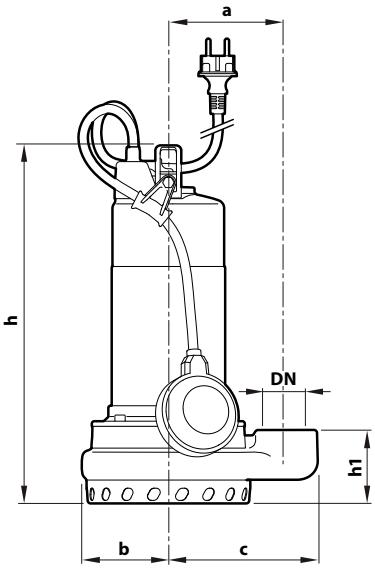
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

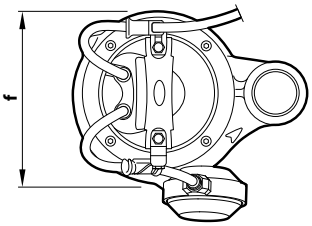
ABSORPTION

TYPE **Single-ph.**	VOLTAGE **230 V**
Dm 8	3.4 A
Dm 10	5.0 A
Dm 20	5.5 A
Dm 30	7.3 A

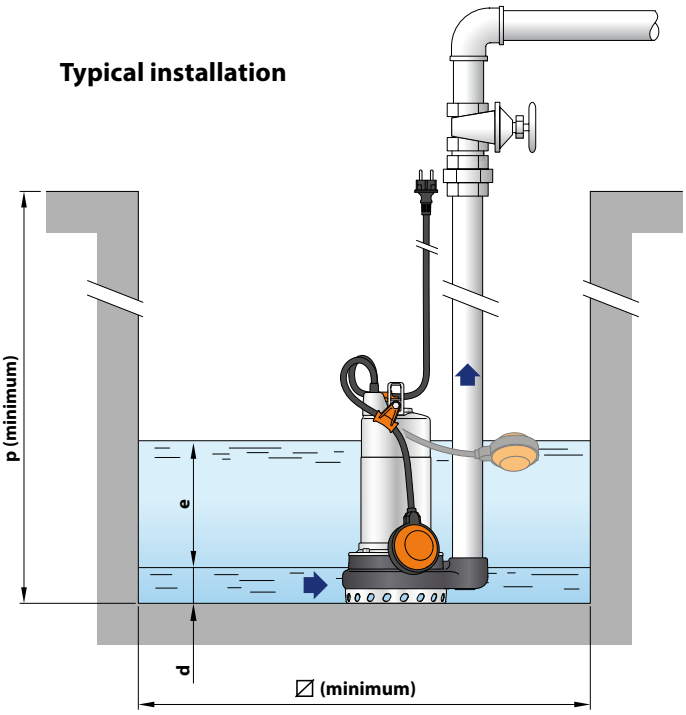
TYPE **Three-ph.**	VOLTAGE **400 V**
D 8	1.4 A
D 10	2.0 A
D 20	2.2 A
D 30	3.0 A

DIMENSIONS AND WEIGHT





Typical installation



TYPE		PORT	DIMENSIONS mm										kg	
Single-ph.	**Three-ph.**	**DN**	a	b	c	f	h	h1	d	e	p	⍁	1~	3~
Dm 8	**D 8**	**1½"**	115	85	147	177	338	73	17	adjustable	500	500	12.8	11.7
Dm 10	**D 10**						353						14.0	12.9
Dm 20	**D 20**												14.0	12.9
Dm 30	**D 30**			93		195	390	84					17.4	16.0

PALLET CAPACITY

TYPE		NO. OF PUMPS
Single-ph.	**Three-ph.**	
Dm 8	**D 8**	60
Dm 10	**D 10**	60
Dm 20	**D 20**	60
Dm 30	**D 30**	60

MATERIALS AND COMPONENTS

1	**Pump body**	Cast iron with cataphoresis treatment, provided with ISO 228/1 threaded port
2	**Suction filter**	Stainless steel **AISI 304**
3	**Suction cover**	Stainless steel **AISI 304**
4	**Impeller**	Open type in technopolymer
5	**Motor sleeve**	Stainless steel **AISI 304**
6	**Motor cover**	**AISI 304** stainless steel for D 8-10-20 Cast iron with cataphoresis treatment for D 30
7	**Motor shaft**	Stainless steel **AISI 431**

8 Double shaft seal with interposed oil chamber

Water pump	Seal	Shaft	Location	Materials
D8, D10, D20	**MG1-14D SIC**	Ø 14 mm	Motor side	SiC / Graphite / NBR
			Pump side	SiC / SiC / NBR
D30	**ST1-14 SIC**	Ø 14 mm		Ceramic / SiC / NBR
	Shaft seal	Ø 16 x Ø 24 x H 5 mm		

9 Capacitor
(exclusive to single-phase models)

10 Electric motor

Dm: single-phase 230 V - 50 Hz with winding integrated thermal motor protection
D: three-phase 400 V - 50 Hz
– Insulation: class F
– Protection rating: IP X8

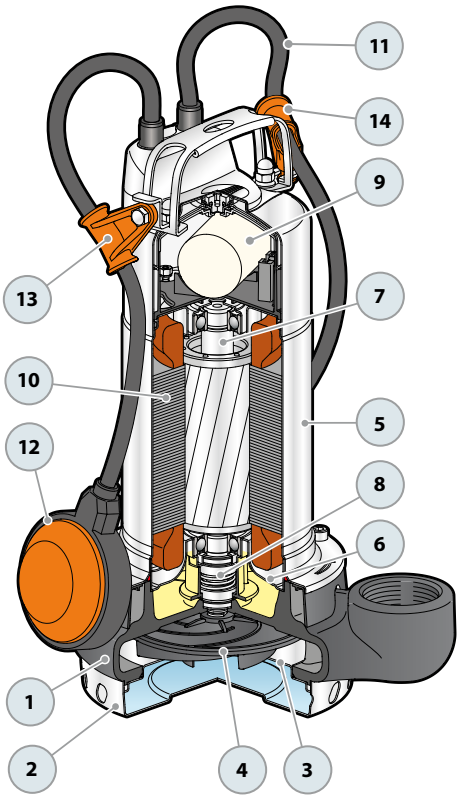
11 Power cord

Type 'H07 RN-F
(Schuko plug exclusive to single-phase models)
※ Standard length 5 metres (10 metres for D30)

12 Float switch (exclusive to single-phase models)

13 Tilting device for the float cable
(exclusive to single-phase models)
Patent No. IT0001428923

14 Power cable strain relief
Patent No. EP2313658



Dirty water | Domestic use | Civil use



PERFORMANCE RANGE

- Flow rate up to **400 l/min** (24 m³/h)
- Head up to **13 m**

INSTALLATION AND USE

ZXm 2 pumps are designed for sewage drainage in **domestic and civil settings**.

※ Featuring a **VORTEX** impeller, these pumps efficiently handle solids up to **40 mm** in diameter, with a unique design that prevents clogging.

INCLUDES

※ **5 m** power cable
※ Float switch
※ Hose connector **Ø 50 mm**

APPLICATION LIMITS

- Maximum operating 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 30 mm** for ZXm 2/30
  - up to **Ø 40 mm** for ZXm 2/40
- **Minimum immersion for continuous service:**
  - 265 mm for ZXm 2/30
  - 275 mm for ZXm 2/40

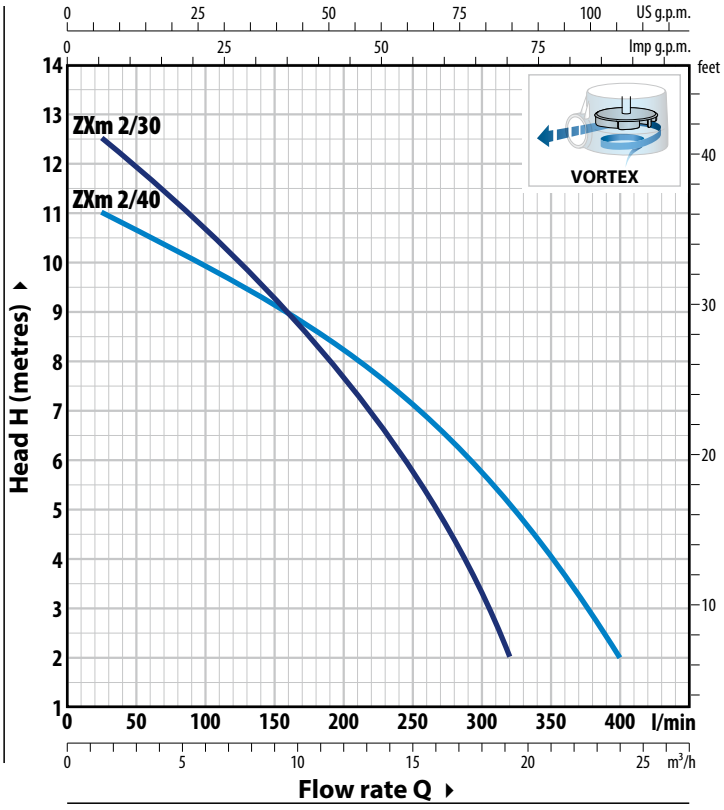
AVAILABLE UPON REQUEST

※ Pumps with **10 m** power cable
※ Different voltage requirements 60 Hz frequency

PATENTS - TRADE MARKS - MODELS

- Patent No. EP2313658
- Patent No. IT0001428923

CURVES AND PERFORMANCE DATA 50 Hz



ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
ZXm 2/30	4.0 A
ZXm 2/40	4.0 A

TYPE	POWER (P2)		Q m³/h	0	1.5	3	6	9	12	15	18	19.2	21	24
Single-phase	**kW**	**HP**	l/min	**0**	**25**	**50**	**100**	**150**	**200**	**250**	**300**	**320**	**350**	**400**
ZXm 2/30	0.55	0.75	**H** metres	13	12.5	11.8	10.6	9.3	7.6	5.8	3.3	2		
ZXm 2/40	0.55	0.75		11.5	11	10.6	9.8	9.2	8.2	7.2	5.7	5.2	4	2

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

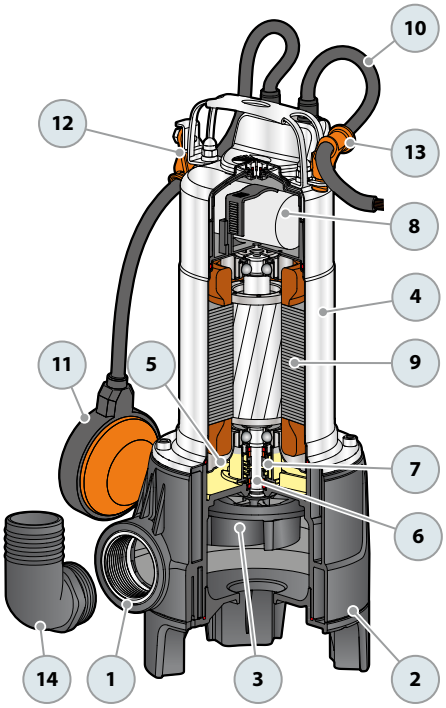
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

MATERIALS AND COMPONENTS

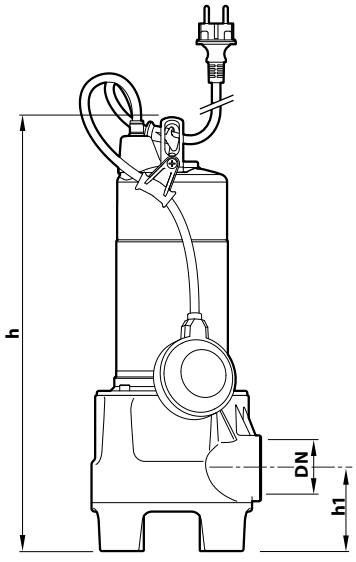
1	**Pump body**	Fibreglass-filled technopolymer with ISO 228/1 threaded delivery port (5-year warranty)
2	**Base**	Glass-fibre reinforced technopolymer
3	**Impeller**	VORTEX type made of glass-fibre reinforced technopolymer
4	**Motor sleeve**	Stainless steel **AISI 304**
5	**Motor cover**	Stainless steel **AISI 304**
6	**Motor shaft**	Stainless steel **AISI 431**
7	**Double mechanical seal with interposed oil chamber**	

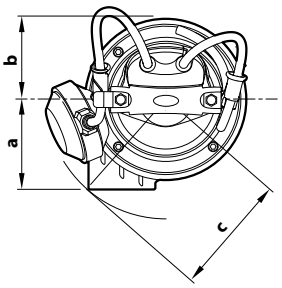
Seal	Shaft	Location	Materials
MG1-14D SIC	Ø 14 mm	Motor side	SiC / Graphite / NBR
		Pump side	SiC / SiC / NBR

8	**Capacitor**	
9	**Electric motor**	Single-phase 230 V - 50 Hz with winding integrated thermal motor protection - Insulation: class F - Protection rating: IP X8
10	**Power cord**	Type 'H07 RN-F' with Schuko plug ※ Standard length 5 metres
11	**Float switch**	
12	**Tilting device for the float cable**	Patent No. IT0001428923
13	**Power cable strain relief**	Patent No. EP2313658
14	**Hose connector Ø 50 mm (included in delivery)**	

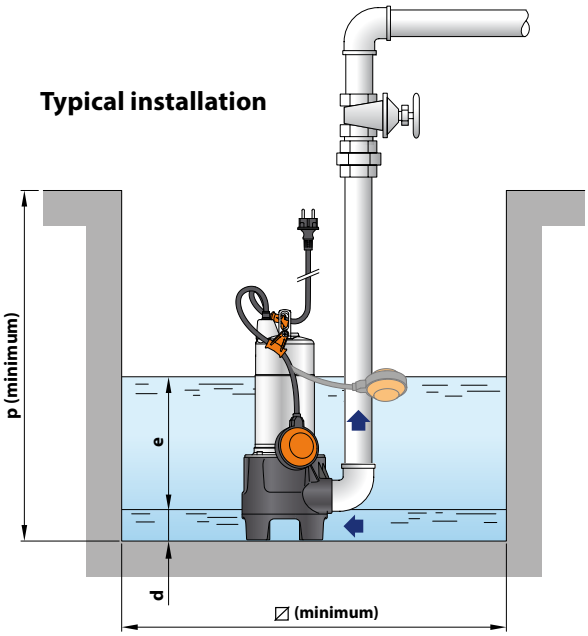


DIMENSIONS AND WEIGHT





Typical installation



TYPE	PORT	Passage of solid bodies	DIMENSIONS mm									kg	PALLET CAPACITY
Single-phase	**DN**		a	b	c	h	h1	d	e	p	⍁	1~	
ZXm 2/30	**1½"**	**Ø 30 mm**	90	81	118	412	73	50	adjustable	500	500	10.8	54
ZXm 2/40		**Ø 40 mm**				422	83					10.8	54