

VX 40 - VX 65

Submersible pumps

VORTEX

 Sewage water

 Civil use

 Industrial use



PERFORMANCE RANGE

- Flow rate up to **1500 l/min** (90 m³/h)
- Head up to **26 m**

APPLICATION LIMITS

- **10 m** maximum immersion depth (with a sufficiently long power cable)
- Maximum liquid temperature **+40 °C**
- Passage of solids:
 - up to **Ø 40 mm** for VX /40
 - up to **Ø 65 mm** for VX /65
- Minimum immersion depth for continuous service:
 - **450 mm** for VX /40
 - **500 mm** for VX /65

CONSTRUCTION AND SAFETY STANDARDS

- **10 m** long power cable
- External float switch and control box 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 40 and VX 65** series of pumps, manufactured from stainless steel and heavy gauge robust cast iron, resistant to abrasion and long-lasting, are fitted with a VORTEX impeller and are therefore suitable for draining **dirty, sewage and reflux water, and water mixed with putrid mud**. They are suitable for installation in sewers, tunnels, excavations, canals, underground car parks, etc.

PATENTS - TRADE MARKS - MODELS

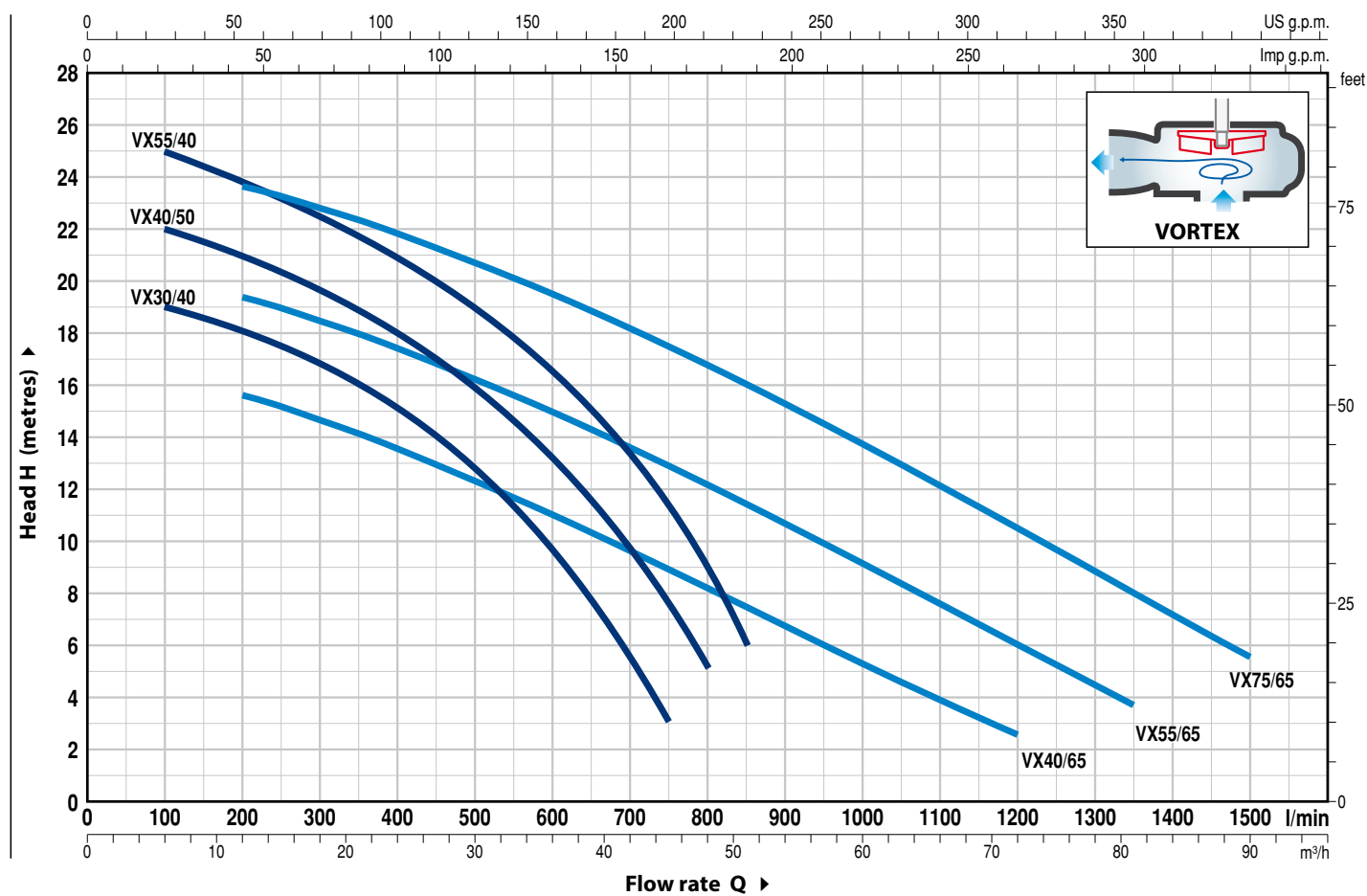
- Patent Pending

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



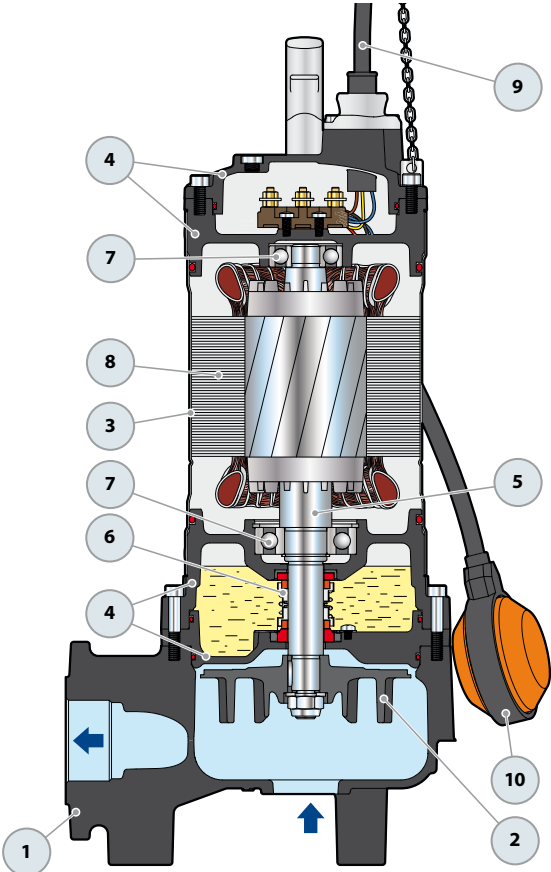
MODEL		POWER (P ₂)		Q													
Single-phase	Three-phase	kW	HP		m ³ /h	0	6	12	24	36	45	48	51	60	72	81	90
					l/min	0	100	200	400	600	750	800	850	1000	1200	1350	1500
VXm 30/40	VX 30/40	2.2	3	H metres		20	19	18	15	9.6	3						
–	VX 40/40	3	4			23	22	21	18	13	7.5	5					
–	VX 55/40	4	5.5			26	25	23.8	21	16.5	11.5	9	6				
–	VX 40/65	3	4			17	–	15.6	13.5	11	9	8.2	7.5	5.3	2.5		
–	VX 55/65	4	5.5			20.7	–	19.4	17.5	15	13	12	11.4	9.1	6	3.7	
–	VX 75/65	5.5	7.5			24.8	–	23.6	21.8	19.5	17.5	16.8	16	13.7	10.5	8	5.5

Q = Flow rate H = Total manometric head

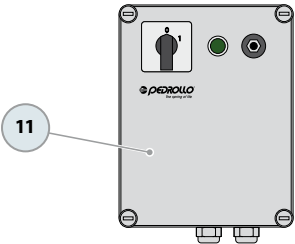
Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

POS. COMPONENT CONSTRUCTION CHARACTERISTICS

1	PUMP BODY	Cast iron with an Epoxy Electro Coating treatment, with threaded port in compliance with ISO 228/1				
2	IMPELLER	VORTEX type in cast iron with an Epoxy Electro Coating treatment				
3	MOTOR CASING	Stainless steel AISI 304				
4	CASING	Cast iron with an Epoxy Electro Coating treatment				
5	MOTOR SHAFT	Stainless steel AISI 431				
6	TWO MECHANICAL SEALS SEPARATED BY AN OIL CHAMBER					
	Seal	Shaft	Position	Materials		
	Model	Diameter		Stationary ring	Rotational ring	Elastomer
	ED560-25	Ø 25 mm	Motor side	Silicon carbide	Graphite	NBR
			Pump side	Silicon carbide	Silicon carbide	NBR
7	BEARINGS	6306 ZZ C3 / 6304 ZZ C3				
8	ELECTRIC MOTOR					
	VXm 40: single-phase 220-230 V - 50 Hz					
	VX 40: three-phase 400 V - 50 Hz with thermal overload protector incorporated into the winding					
	– Insulation: class F					
	– Protection: IP X8					
9	POWER CABLE					
	“H07 RN-F” type					
	Standard length 10 metres					
10	FLOAT SWITCH (only for single-phase versions)					
11	CONTROL BOX (only for single-phase versions)					
	With manual overload cut-out and with capacitors for starting and operating.					
	Pump		Capacitance of the operating capacitor	Capacitance of the starting capacitor		
	Single-phase (220-230 V o 240 V)					
	VXm 30/40		70 µF 450 VL	80 µF 450 VL		

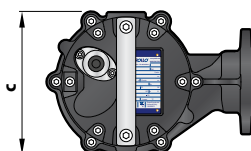
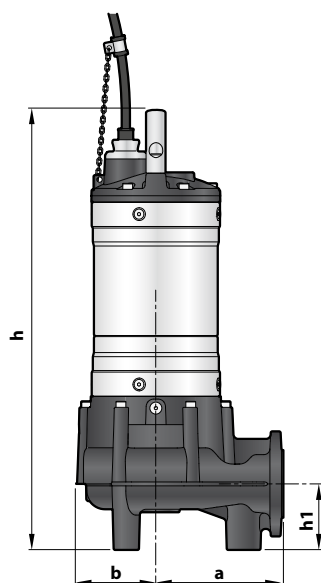


Standard features

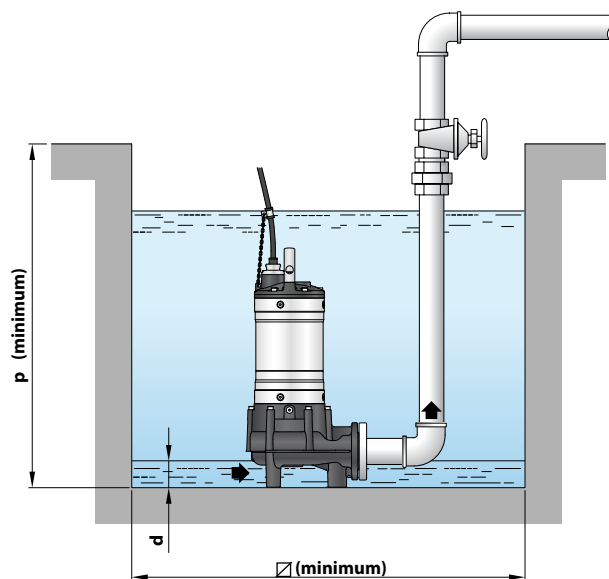


Control box
(only for single-phase version)

DIMENSIONS AND WEIGHT



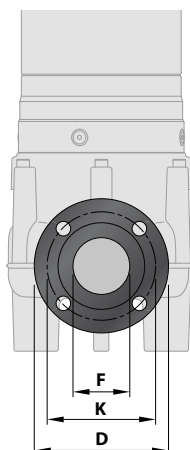
Standard installation



MODEL		Passage of solids	DIMENSIONS mm								kg	
Single-phase	Three-phase		a	b	c	h	h1	d	p	Ø	1~	3~
VXm 30/40	VX 30/40	Ø 40 mm	170	107	192	627/587	88	55	700	500	56.0	48.9
-	VX 40/40					587					-	49.0
-	VX 55/40					627					-	54.4

FLANGED PORT

MODEL		FLANGE	F	K	D	HOLES	
Single-phase	Three-phase	DN		mm	mm	N.	Ø (mm)
VXm 30/40	VX 30/40	50 (PN6)	2"	110	140	4	14
-	VX 40/40						
-	VX 55/40						



ABSORPTION

MODEL	VOLTAGE
Single-phase	230 V
VXm 30/40	15.5 A
MODEL	VOLTAGE
Three-phase	400 V
VX 30/40	5.0 A
VX 40/40	5.8 A
VX 55/40	7.0 A

PALLETIZATION

MODEL		GROUPAGE
Single-phase	Three-phase	n. pumps
VXm 30/40	VX 30/40	10
-	VX 40/40	10
-	VX 55/40	10

POS. COMPONENTCONSTRUCTION CHARACTERISTICS

1	PUMP BODY	Cast iron with an Epoxy Electro Coating treatment, with threaded port in compliance with ISO 228/1				
2	IMPELLER	VORTEX type in cast iron with an Epoxy Electro Coating treatment				
3	MOTOR CASING	Stainless steel AISI 304				
4	CASING	Cast iron with an Epoxy Electro Coating treatment				
5	MOTOR SHAFT	Stainless steel AISI 431				
6	TWO MECHANICAL SEALS SEPARATED BY AN OIL CHAMBER					
Seal		Shaft	Position	Materials		
Model		Diameter		Stationary ring	Rotational ring	Elastomer
AR-27		Ø 27 mm	Motor side	Silicon carbide	Graphite	NBR
AR-25		Ø 25 mm	Pump side	Silicon carbide	Silicon carbide	NBR
7	BEARINGS	6306 ZZ C3 / 6304 ZZ C3				

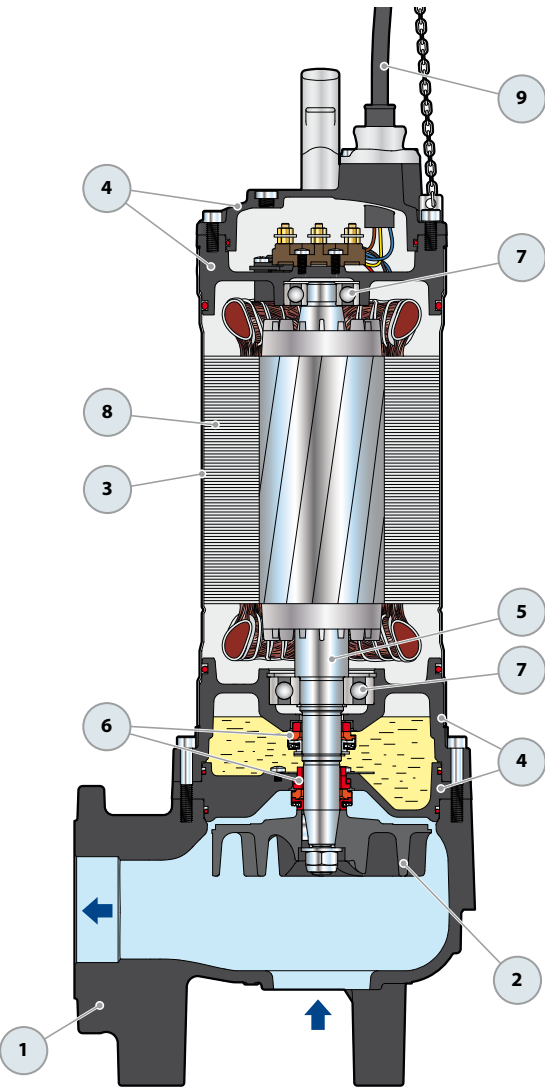
8 ELECTRIC MOTOR

VX 65: three-phase 400 V - 50 Hz
with thermal overload protector incorporated
into the winding

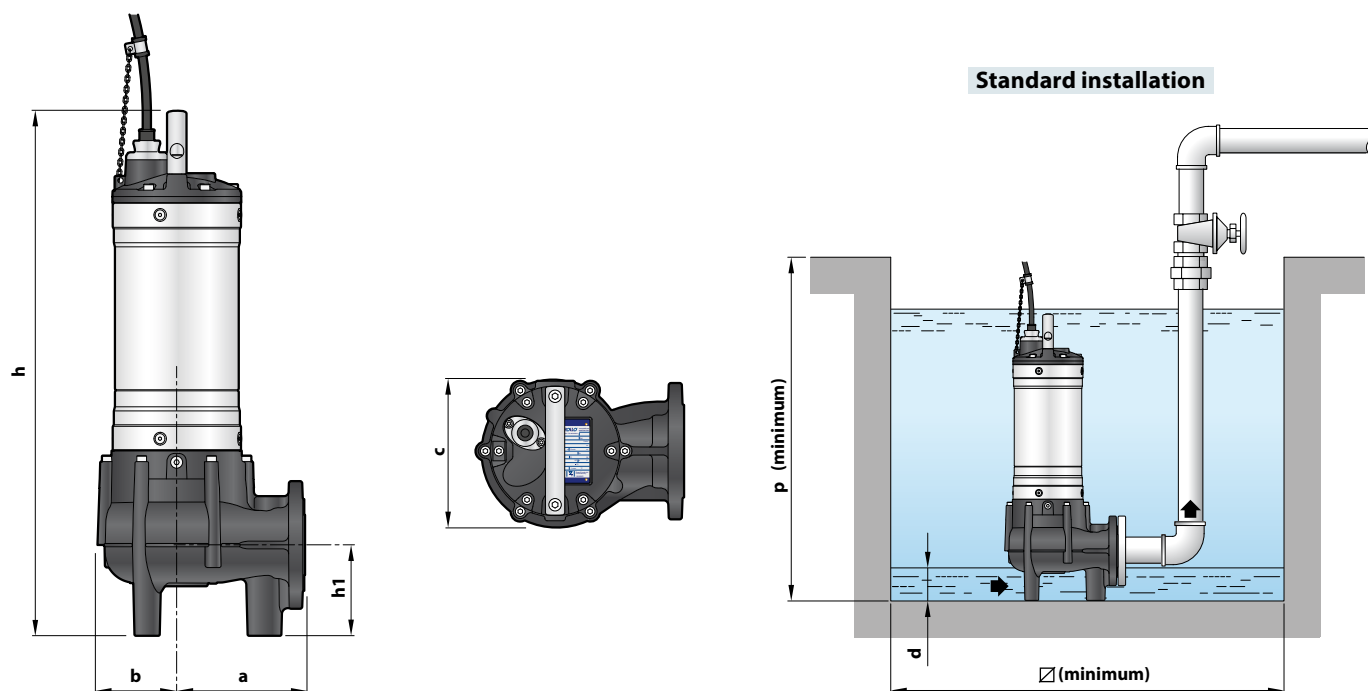
– Insulation: class F
– Protection: IP X8

9 POWER CABLE

"H07 RN-F" type
Standard length 10 metres



DIMENSIONS AND WEIGHT



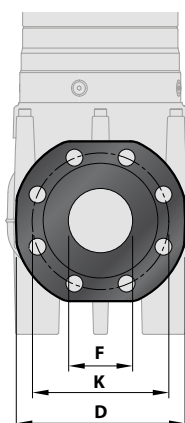
MODEL	Passage of solids	DIMENSIONS mm								
Three-phase		a	b	c	h	h1	d	p	∅	3~
VX 40/65	Ø 65 mm	170	107	196	630	121	70	800	500	53.0
VX 55/65					670					54.0
VX 75/65					700					62.0

FLANGED PORT

MODEL	FLANGE	F	K	D	HOLES	
Three-phase	DN		mm	mm	N.	Ø (mm)
VX 40/65	65 (PN10)	2½"	145	185	4	18
VX 55/65						
VX 75/65						

ABSORPTION

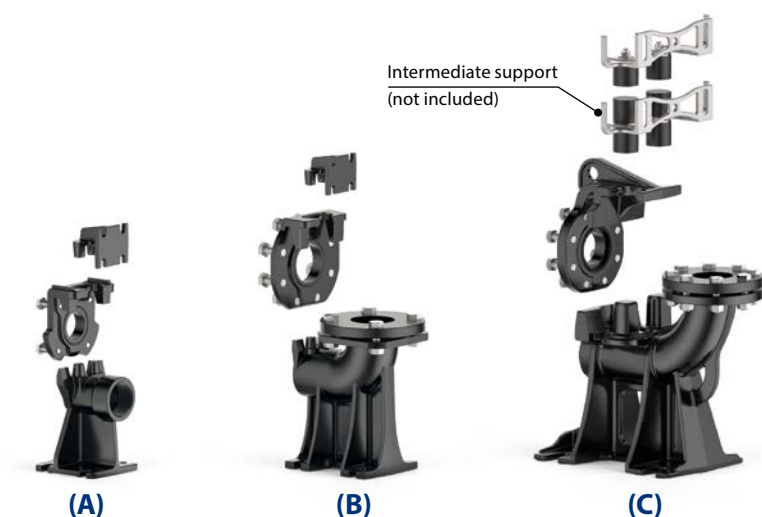
MODEL	VOLTAGE
Three-phase	400 V
VX 40/65	6.2 A
VX 55/65	7.7 A
VX 75/65	12.7 A



PALLETIZATION

MODEL	GROUPAGE
Three-phase	n. pumps
VX 40/65	12
VX 55/65	12
VX 75/65	12

BASE PEDESTAL KIT VX40 – VX65 –BC35



A) HORIZONTAL DELIVERY VERSION WITH ¾" GUIDE TUBES

For pump models	CODE	DN
VX /40	ASSPVX40	2"

Kit consisting of::

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

B) VERTICAL DELIVERY VERSION WITH ¾" GUIDE TUBES

For pump models	CODE	DN
VX /40	ASSPVX40V	2½"
VX /65, BC /35	ASSPVX653V	3"

Kit consisting of::

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

C) VERTICAL DELIVERY VERSION WITH 2" GUIDE TUBES

For pump models	CODE	DN
VX /65, BC /35	ASSPVX65V	3"

Kit consisting of::

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

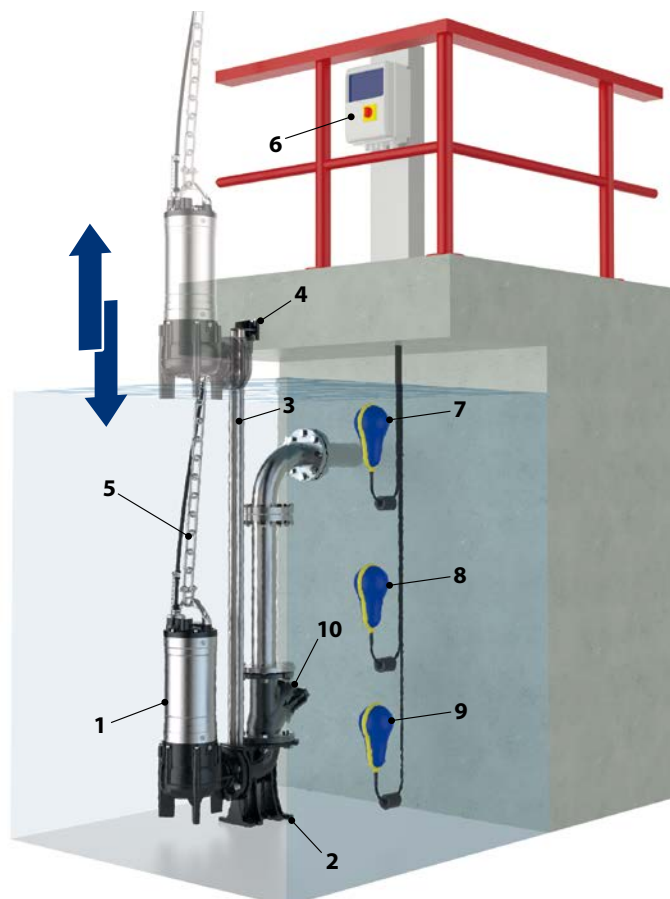
GUIDE TUBES (AISI 304 stainless st)

For pump models	CODE	Ø
VX /40, VX /65, BC /35	54SARTG005	¾"
VX /65, BC /35	54SARTG006	2"

Maximum length of the guide tube: 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



Version with 2" guide tubes