Submersible pumps





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 50 mm** for VX 50
 - up to **Ø 65 mm** for VX 65
- Minimum immersion depth for continuous service 500 mm

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, VX 50 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 refluent water, and water mixed with putrid mud. They are suitable for installation in sewers, tunnels, excavations, canals, underground car parks,

PATENTS - TRADE MARKS - MODELS

• Registered EU Design n. 003863158-0002

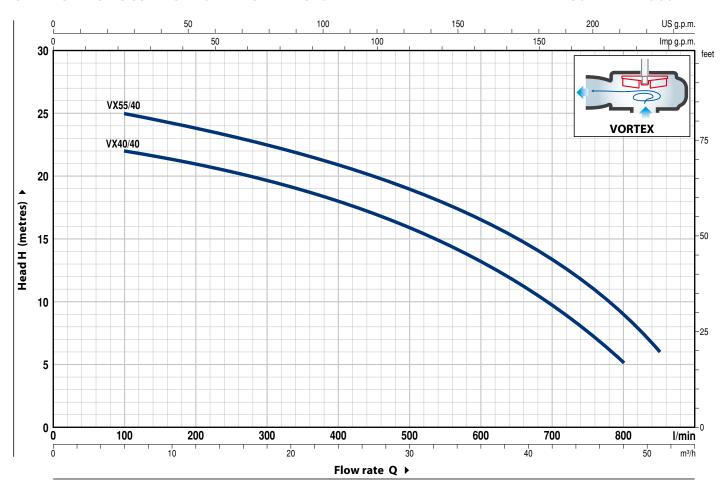
OPTIONS AVAILABLE ON REQUEST

- Single-phase pumps without float switch
- Other voltages or 60 Hz frequency



CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min⁻¹



MODEL	POWE	ER (P2)	m³/h	0	6	12	24	36	42	48	54
Three-phase	kW	HP	Q I/min	0	100	200	400	600	700	800	850
VX 40/40	3	4		23	22	21	18	13	9.5	5	
VX 55/40	4	5.5	H metres	26	25	23.8	21	16.5	11.5	9	6

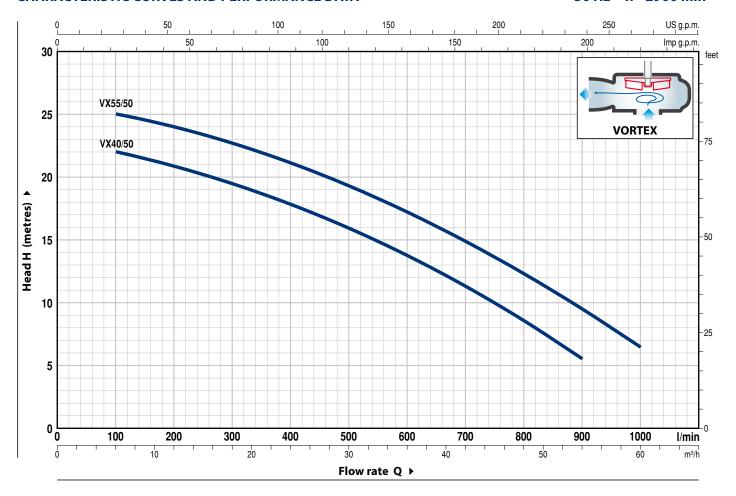
 $\mathbf{Q} = \text{Flow rate} \quad \mathbf{H} = \text{Total manometric head}$

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

VX 50

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min⁻¹



MODEL	POW	ER (P2)	m³/h	0	6	12	24	36	42	48	54	60
Three-phase	kW	HP	Q I/min	0	100	200	400	600	700	800	900	1000
VX 40/50	3	4	11	23	22	21	18	14	11.5	7	5.5	
VX 55/50	4	5.5	H metres	26	25	24	21.5	17.5	15	11	8	6.5

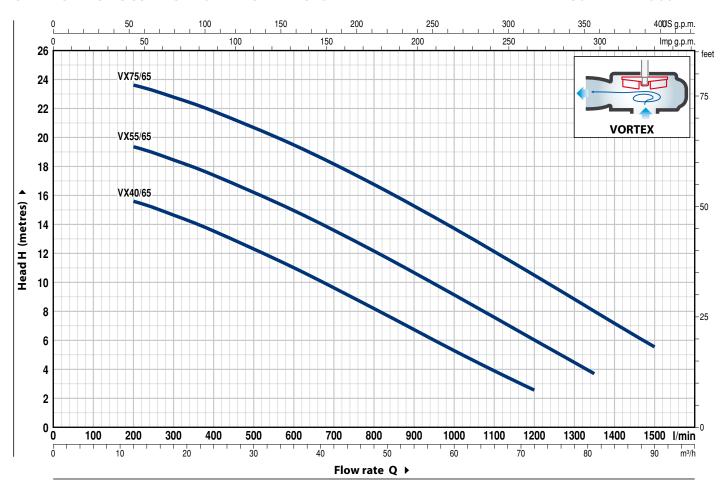
 $\mathbf{Q} = \text{Flow rate} \quad \mathbf{H} = \text{Total manometric head}$

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



CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min⁻¹



MODEL	POWE	ER (P2)	m³/h	0	6	12	24	36	42	48	54	60	72	81	90
Three-phase	kW	HP	Q //I/min	0	100	200	400	600	700	800	900	1000	1200	1350	1500
VX 40/65	3	4		17	_	15.6	13.5	11	9.5	8.2	7	5.3	2.5		
VX 55/65	4	5.5	H metres	20.7	_	19.4	17.5	15	13.5	12	10.7	9.1	6	3.7	
VX 75/65	5.5	7.5		24.8	_	23.6	21.8	19.5	18	16.8	15.2	13.7	10.5	8	5.5

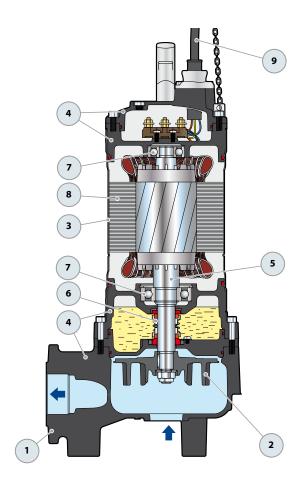
Q = Flow rate **H** = Total manometric head

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



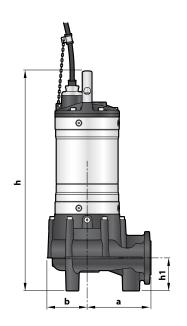
POS.	COMPONENT	CONSTRU	CTION CHAR	ACTERISTICS					
1	PUMP BODY	Cast iron with	ast iron with an Epoxy Electro Coating treatment, with threaded port in compliance with ISO 228/1						
2	IMPELLER	VORTEX type	ORTEX type in cast iron with an Epoxy Electro Coating treatment						
3	MOTOR CASING	Stainless stee	el AISI 304						
4	MOTOR CASING PLATE	Cast iron witl	h an Epoxy Elect	ro Coating treatment	t				
5	MOTOR SHAFT	Stainless stee	Stainless steel AISI 431						
6	TWO MECHANICAL SEAL	S SEPARATED	BY AN OIL CHA	MBER					
	Seal	Shaft	Position		Materials				
	Model	Diameter		Stationary ring	Rotational ring	Elastomer			
	FDF(0.25	Ø 25	Motor side	Silicon carbide	Graphite	NBR			
	ED560-25	Ø 25 mm	Pump side	Silicon carbide	Silicon carbide	NBR			
7	BEARINGS	6306 ZZ C3 /	6304 ZZ C3						
8	ELECTRIC MOTOR	Three-phase	400 V - 50 Hz <u>wi</u>	th thermal overload	protector incorporate	d into the winding			
			- Insulation: class F - Protection: IP X8						
9	POWER CABLE	Type "H07 RN	N-F"						

Standard length 10 metres

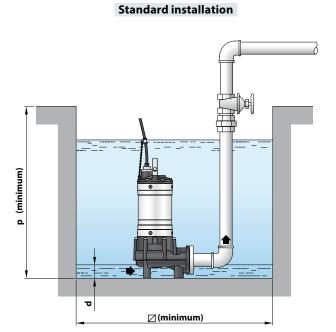




DIMENSIONS AND WEIGHT







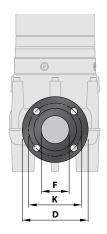
MODEL	Passage		DIMENSIONS mm									
Three-phase	of solids	a	b	С	h	h1	d	р	Ø	3~		
VX 40/40	a	170	107	100	587	00		700	500	48.3		
VX 55/40	Ø 40 mm	170	107	192	627	88	55	700	500	54.3		

PORT FLANGE

MODEL	FLANGE	F	K	D	но	LES
Three-phase	DN		mm	mm	N°	Ø (mm)
VX 40/40	50	2"	110	140		14
VX 55/40	(PN6)	2"	110	140	4	14

ABSORPTION

MODEL	VOLTAGE
Three-phase	400 V
VX 40/40	5.8 A
VX 55/40	7.0 A

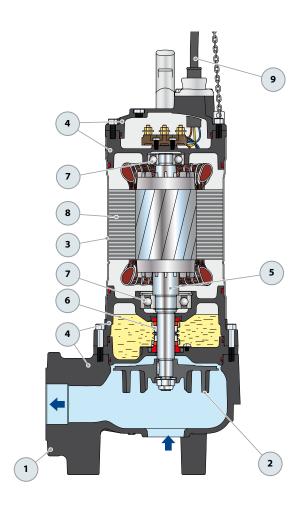


PALLETIZATION

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

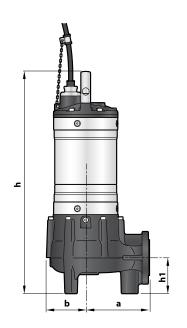


POS.	COMPONENT	CONSTRUC	CTION CHARA	ACTERISTICS					
1	PUMP BODY	Cast iron with	Cast iron with an Epoxy Electro Coating treatment, with threaded port in compliance with ISO 228/1						
2	IMPELLER	VORTEX type	ORTEX type in cast iron with an Epoxy Electro Coating treatment						
3	MOTOR CASING	Stainless stee	el AISI 304						
4	MOTOR CASING PLATE	Cast iron with	n an Epoxy Electro	o Coating treatment					
5	MOTOR SHAFT	Stainless stee	Stainless steel AISI 431						
6	TWO MECHANICAL SEAL	S SEPARATED	BY AN OIL CHAI	MBER					
	Seal	Shaft	Position		Materials				
	Model	Diameter		Stationary ring	Rotational ring	Elastomer			
			Motor side	Silicon carbide	Graphite	NBR			
	ED560-25	Ø 25 mm	Pump side	Silicon carbide	Silicon carbide	NBR			
7	BEARINGS	6306 ZZ C3 /	6304 ZZ C3						
8	ELECTRIC MOTOR	Three-phase	400 V - 50 Hz <u>wit</u> l	h thermal overload p	orotector incorporate	d into the winding			
			– Insulation: class F – Protection: IP X8						
9	POWER CABLE	H07 RN-F" typ	oe						
		Standard len	Standard length 10 metres						

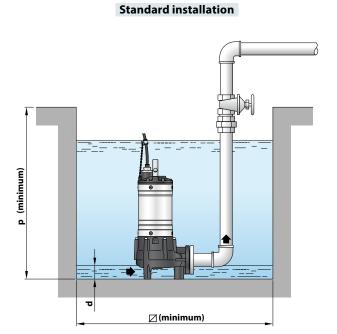




DIMENSIONS AND WEIGHT







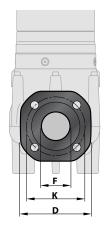
MODEL	Passage		DIMENSIONS mm									
Three-phase	Three-phase of solids	a	b	с	h	h1	d	р		3~		
VX 40/50	a = 2	170	100	102	602	100		700	500	50.0		
VX 55/50	Ø 50 mm	170	106	193	642	100	55	700	500	58.2		

PORT FLANGE

MODEL	FLANGE	F	K	D	HOLES		
Three-phase	DN		mm	mm	N°	Ø (mm)	
VX 40/50	50	2"	125	150	4	10	
VX 55/50	(PN10)	2"	125	150	4	18	

ABSORPTION

MODEL	VOLTAGE
Three-phase	400 V
VX 40/50	5.8 A
VX 55/50	7.0 A



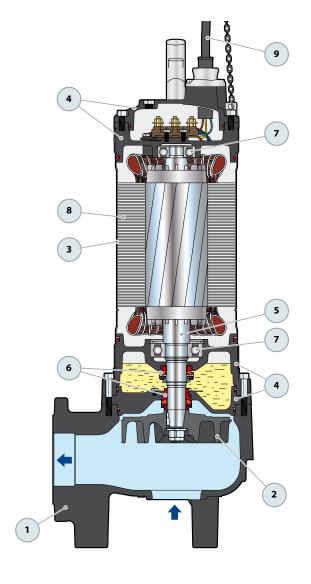
PALLETIZATION

MODEL	GROUPAGE
Three-phase	n. pumps
VX 40/50	10
VX 55/50	12



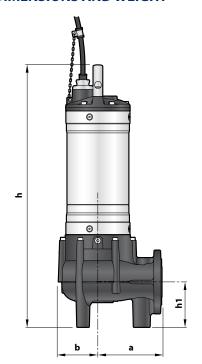
POS.	COMPONENT	CONSTRUC	TION CHARAC	TERISTICS		
1	PUMP BODY	Cast iron with	ast iron with an Epoxy Electro Coating treatment, with threaded port in compliance with ISO 228/1			
2	IMPELLER	VORTEX type	ORTEX type in cast iron with an Epoxy Electro Coating treatment			
3	MOTOR CASING	Stainless steel	AISI 304			
4	MOTOR CASING PLATE	Cast iron with	an Epoxy Electro	Coating treatment		
5	MOTOR SHAFT	Stainless steel	Stainless steel AISI 431			
6	TWO MECHANICAL SEA	LS SEPARATED	S 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	Three-phase 4	Three-phase 400 V - 50 Hz with thermal overload protector incorporated into the winding			
		Insulation: cProtection: I				
9	POWER CABLE	"H07 RN-F" ty	pe			

Standard length 10 metres

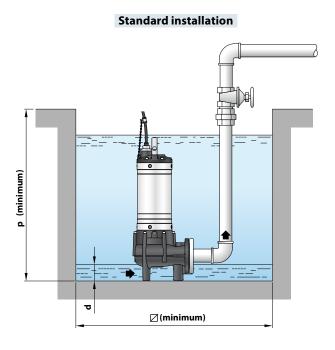




DIMENSIONS AND WEIGHT







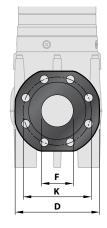
MODEL	Passage	DIMENSIONS mm								
Three-phase	of solids	a	b	с	h	h1	d	р	Ø	3~
VX 40/65					630					53.3
VX 55/65	Ø 65 mm	170	107	196	670	121	70	800	500	60.0
VX 75/65					700					65.0

PORT FLANGE

MODEL FLAN		F	K	D	но	LES
Three-phase	DN		mm	mm	N°	Ø (mm)
VX 40/65						
VX 55/65	65 (PN10)	2½"	145	185	8	18
VX 75/65	(11110)					



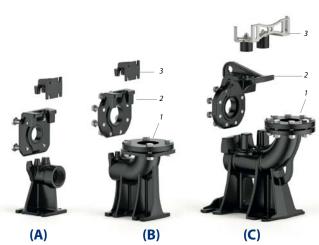
MODEL	VOLTAGE
Three-phase	400 V
VX 40/65	6.2 A
VX 55/65	7.7 A
VX 75/65	12.7 A



PALLETIZATION

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

SEWAGE LIFTING SYSTEM VX40 – VX50 – VX65 – BC35



- 1 Footing connection
- 2 Slide auide (Also to be ordered separately)
- 3 Support for the guide tubes



A) HORIZONTAL DELIVERY VERSION WITH 34" GUIDE TUBES

For VX /40	Cod. ASSPVX40	DN 2 "
For VX /50	Cod. ASSPVX50	DN 2"

Kit consisting of:

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

B) VERTICAL DELIVERY VERSION WITH 34" GUIDE TUBES

For VX /40	Cod. ASSPVX40V	DN 2 ½"
For VX /50	Cod. ASSPVX503V	DN 2½"
For VX /65, BC /35	Cod. ASSPVX653V	DN 3"

Kit consisting of:

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

C) VERTICAL DELIVERY VERSION WITH 2" GUIDE TUBES

For VX /50	Cod. ASSPVX50V	DN 3"
For VX /50, VX /65, BC /35	Cod. ASSPVX65V	DN 3"

Kit consisting of:

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

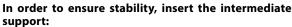
SLIDE GUIDE (Also to be ordered separately)

For VX /40 with guide tubes Ø ¾"	Cod. ASSFL011
For VX /50 with guide tubes Ø ¾"	Cod. ASSFL009
For VX /50 with guide tubes Ø 2 "	Cod. ASSFL050
For VX /65, BC /35 with guide tubes Ø 3/4"	Cod. ASSFL010
For VX /65, BC /35 with guide tubes Ø 2"	Cod. ASSFL065

Complete with screws and seals

• INTERMEDIATE SUPPORT (To be ordered separately)

	•	
For guide tubes Ø ¾"	Cod. 859SV340INTFA	
For guide tubes Ø 2 "	Cod. 859SV349INTFA	



- every 2 metres with 3/4" guide tubes (compulsory)
- every 3 metres with 2" guide tubes (recommended)

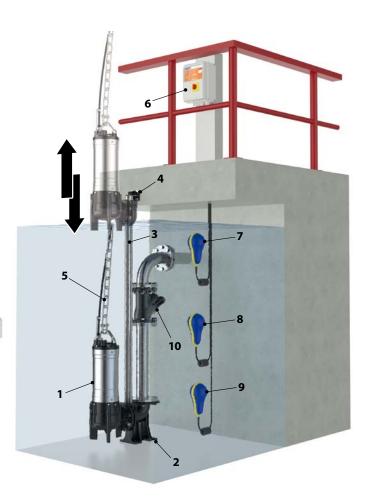
GUIDE TUBES (AISI 304 stainless steel)

Guide tube ؾ"	Cod. 54SARTG005
Guide tube Ø2"	Cod. 54SARTG006

Maximum length of the tube plank: 6 metres

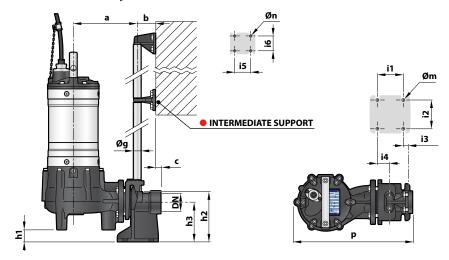
STANDARD INSTALLATION

- 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
- Stop float switch 10. Non-return valve



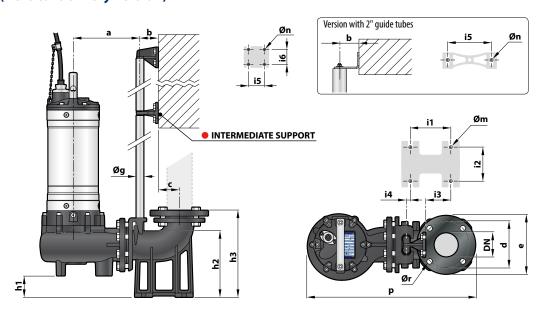


DIMENSIONS (Horizontal delivery version)



MODEL	Passage of solids	PORT	DIMENSIONS mm															
	mm	DN	a	b	c	р	h1	h2	h3	i1	i2	i3	i4	i5	i6	Øg	Øm	Øn
VX /40	Ø 40	2"	214	C1	17	400	42	165	130	85	0.4	16	40	50	40	3/4"	12	11
VX /50	Ø 50			61			30				94	16			48			11

DIMENSIONS (Vertical delivery version)



Version with ¾" guide tubes

MODEL	Passage of solids	PORT	DRT DIMENSIONS mm																		
	mm	DN	а	b	c	d	e	р	h1	h2	h3	i1	i2	i3	i4	i5	i6	Øg	Øm	Øn	Ør
VX /40	Ø 40	21/2"	211		52	125	165	506	40	164	216	120	72	62	3	50	48				
VX /50	Ø 50		211						28									2/11	1.4	11	10
VX /65	Ø 65	3"	213	61	69	150	190	537	48	216	280	130	112	84	15			3/4"	14	11	18
BC /35	Ø 35		231					550	69	216											

Version with 2" guide tubes

MODEL	Passage of solids	PORT	DIMENSIONS mm																		
	mm	DN	a	b	c	d	e	р	h1	h2	h3	i1	i2	i3	i4	i5	i6	Øg	Øm	Øn	Ør
VX /50	Ø 50	3"		86	95	160		706	107	264	4 392	2 250			_	186	_	2"	22	13.5	18
VX /65	Ø 65		319				200	697	86				150	34							
BC /35	Ø 35							710	107												