VXC4

VORTEX

Submersible pumps

Sewage water

Civil use

Industrial use

PERFORMANCE RANGE

- Flow rate up to **2200 l/min** (132 m^3/h)
- Head up to **12.2 m**

APPLICATION LIMITS

- **10 m** maximum immersion depth (with a sufficiently long power cable)
- Maximum liquid temperature **+40 °C**
- Passage of suspended solids up to **Ø 100 mm**
- Minimum immersion depth for continuous service: **550 mm**

CONSTRUCTION AND SAFETY STANDARDS

- **10 m** long power cable

EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3

CE

CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY

INSTALLATION AND USE

The **VXC4** series of pumps, manufactured from 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, etc.

PATENTS - TRADE MARKS - MODELS

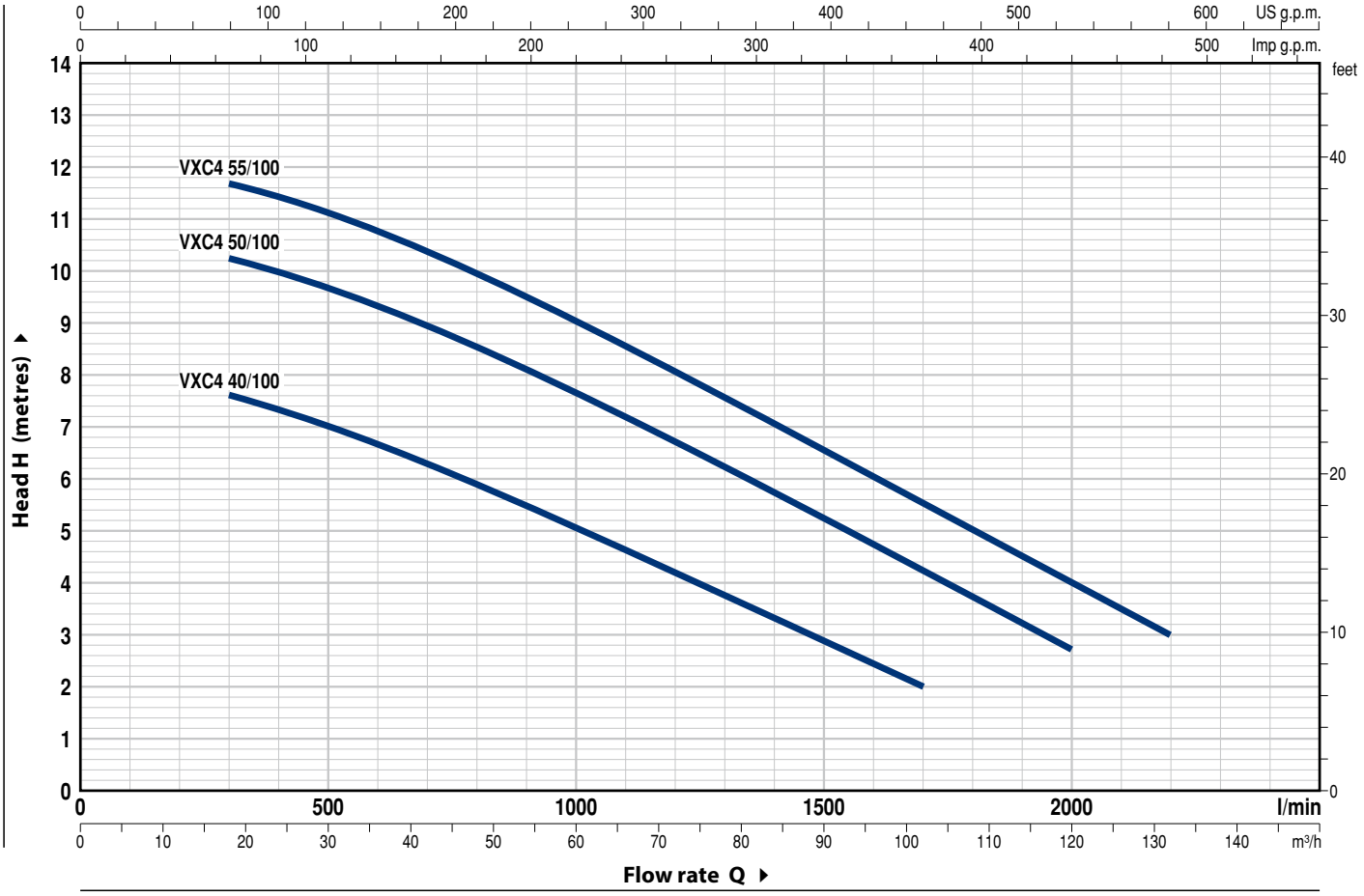
- Patent Pending

OPTIONS AVAILABLE ON REQUEST

- Pumps equipped with internal probes detecting the presence of water in the oil chamber
- Pumps with double cable for star/delta start
- Other voltages or 60 Hz frequency

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 1450 min^{-1}



MODEL	POWER (P2)		Q	m³/h	0	18	30	45	60	75	90	102	120	132
Three-phase	**kW**	**HP**		l/min	**0**	**300**	**500**	**750**	**1000**	**1250**	**1500**	**1700**	**2000**	**2200**
VXC4 40/100	3	4			8.3	7.6	7	6.1	5.1	4	2.9	2		
VXC4 50/100	3.7	5	**H**	metres	10.8	10.2	9.6	8.7	7.6	6.4	5.2	4.2	2.7	
VXC4 55/100	4	5.5			12.2	11.7	11.1	10.2	9	7.8	6.5	5.5	4	3

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	**BASE**	Cast iron with an Epoxy Electro Coating treatment
3	**IMPELLER**	VORTEX type in cast iron with an Epoxy Electro Coating treatment
4	**MOTOR CASING**	Cast iron with an Epoxy Electro Coating treatment
5	**CASING**	Cast iron with an Epoxy Electro Coating treatment
6	**MOTOR SHAFT**	Stainless steel AISI 431

7 TWO MECHANICAL SEALS SEPARATED BY AN OIL CHAMBER

Seal	***Shaft***	*Position*		*Materials*	
Model	***Diameter***		*Stationary ring*	*Rotational ring*	*Elastomer*
MG91-40D	**Ø 40** mm	Motor side	Silicon carbide	Graphite	NBR
		Pump side	Silicon carbide	Silicon carbide	NBR

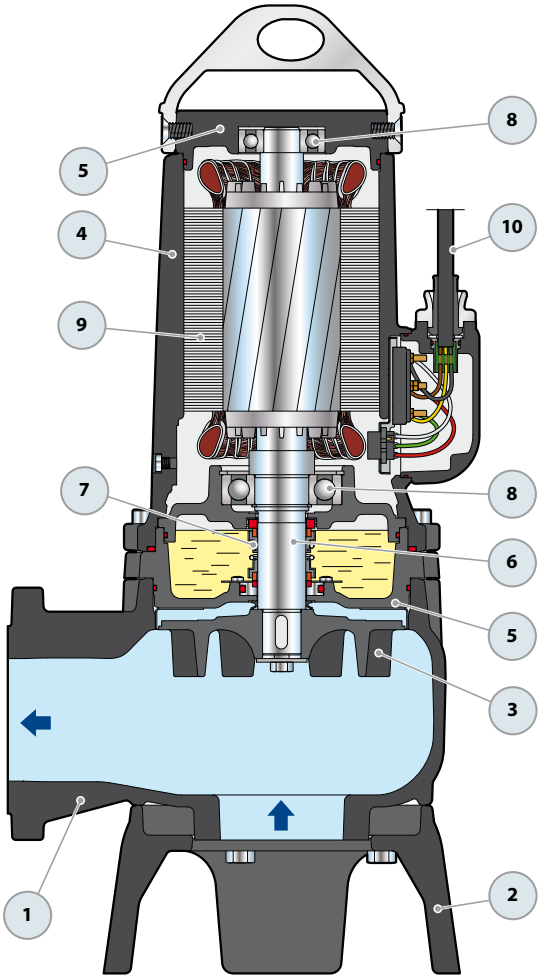
8 BEARINGS **6309 ZZ C3 ENS / 6306 ZZ C3 ENS**

9 ELECTRIC MOTOR

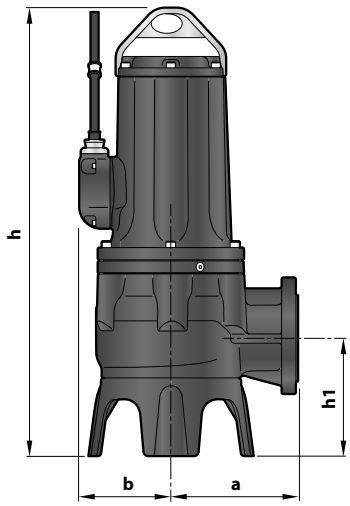
– three-phase 400 V - 50 Hz
with thermal overload protector incorporated into the winding
– Insulation: class F
– Protection: IP X8

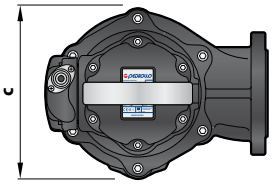
10 POWER CABLE

"H07 RN-F" type
Standard length 10 metres

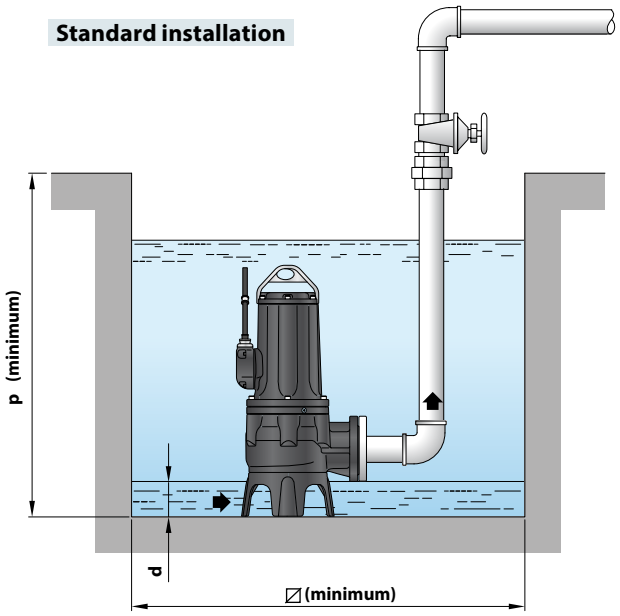


DIMENSIONS AND WEIGHT



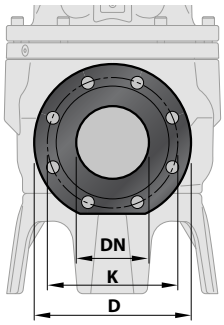


Standard installation



MODEL Three-phase	Passage of solids	DIMENSIONS mm a	b	c	h	h1	d	p	⍁	kg 3~
VXC4 40/100										**110**
VXC4 50/100	**Ø 100 mm**	228	165	302	806	211	140	1000	1000	**115**
VXC4 55/100										**118**

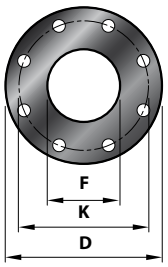
FLANGED PORT



MODEL Three-phase	FLANGE DN	K mm	D mm	HOLES N.	 Ø (mm)
VXC4 40/100					
VXC4 50/100	**100** (PN10)	180	220	8	18
VXC4 55/100					

COUNTERFLANGE

(INCLUDED IN THE CONNECTION SUPPORT KIT)



MODEL Three-phase	FLANGE DN	F	K mm	D mm	HOLES N.	 Ø (mm)
VXC4 40/100						
VXC4 50/100	**100**	4"	180	220	8	18
VXC4 55/100						

ASSORBIMENTI

MODEL Three-phase	VOLTAGE 400 V
VXC4 40/100	**5.5** A
VXC4 50/100	**7.7** A
VXC4 55/100	**9.0** A

PALLETIZATION

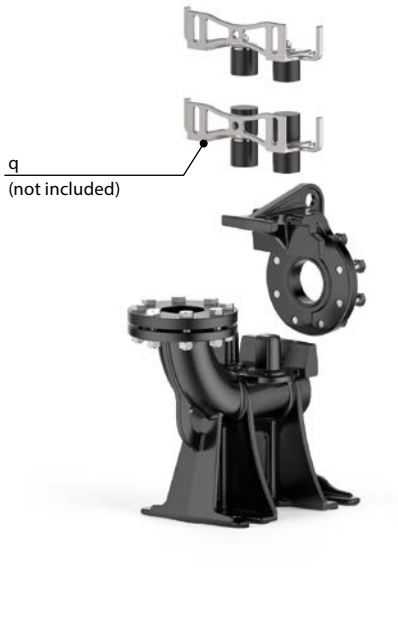
MODEL Three-phase	GROUPAGE n. pumps
VXC4 40/100	**4**
VXC4 50/100	**4**
VXC4 55/100	**4**

BASE PEDESTAL KIT VXC4 – MC4

VERTICAL DELIVERY VERSION WITH 2" GUIDE TUBES

For pump models	CODE	DN
MC4	ASSPMC4V	**3"**
VXC4	ASSPVXC4V	**4"**

Kit consisting of:
– footing connection complete with counterflange
– slide guide with screws and seal
– support for the guide tubes



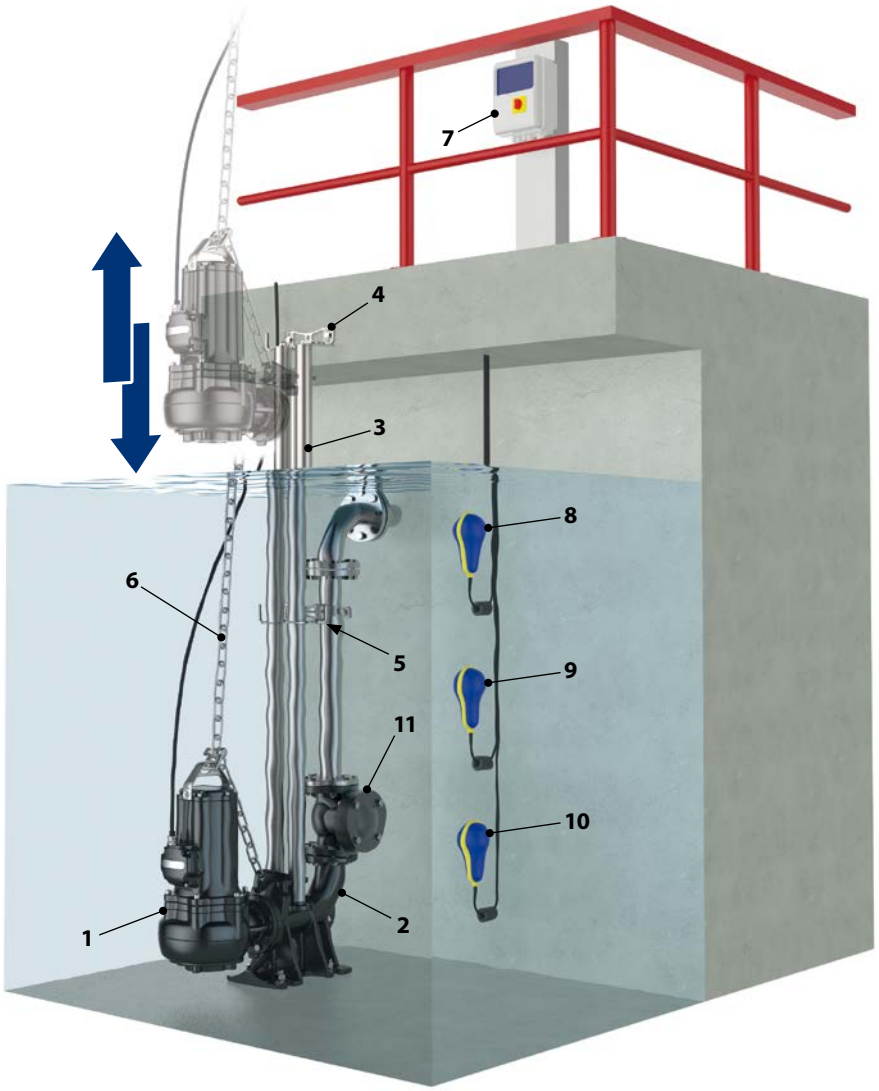
GUIDE TUBES (AISI 304 stainless steel)

CODE	Ø
54SARTG005	**¾"**
54SARTG006	**2"**

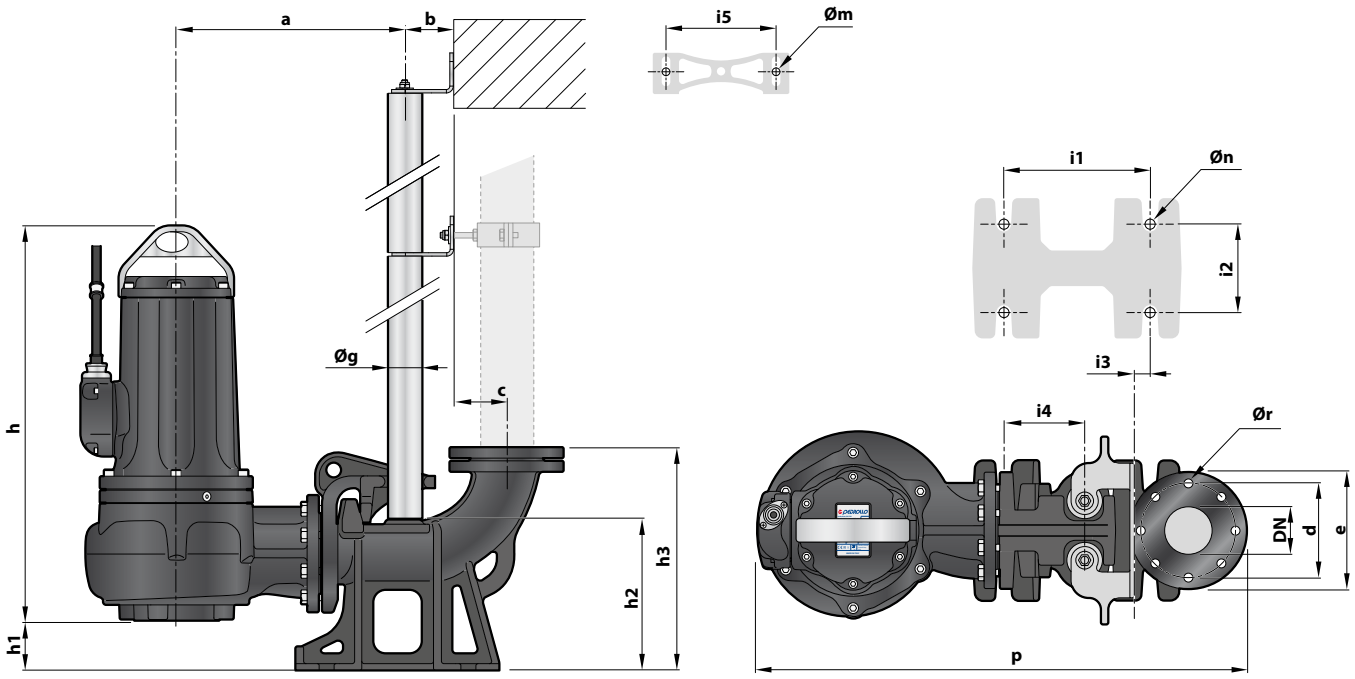
Maximum length of the guide tube: 6 metres

STANDARD INSTALLATION

1. Pump
2. Footing connection
3. Guide tubes
4. Support for the guide tubes
5. Intermediate support for the guide tubes
6. Lifting chain
7. Control box
8. Alarm float switch
9. Starting float switch
10. Stop float switch
11. Non-return valve



DIMENSIONS



MODEL	Passage of solids	PORT	DIMENSIONS mm																		
Three-phase	mm	DN	a	b	c	d	e	p	h	h1	h2	h3	i1	i2	i3	i4	i5	Øg	Øm	Øn	Ør
VXC4 40/100	Ø 100	3"	376	85	105	180	220	841	695	107	266	426	250	150	34	130	186	2"	13	16	18
VXC4 50/100																					
VXC4 55/100																					

MODEL	Passage of solids	PORT	DIMENSIONS mm																		
Three-phase	mm	DN	a	b	c	d	e	p	h	h1	h2	h3	i1	i2	i3	i4	i5	Øg	Øm	Øn	Ør
MC4 40/55	Ø 55	4"	396	85	95	160	200	841	680	92	256	592	250	150	34	130	186	2"	13	16	18
MC4 50/55																					
MC4 55/55																					