VX 40

VORTEX

Submersible pumps

Filthy water

Civil use

Industrial use

PERFORMANCE RANGE

- Flow rate up to **850 l/min** (51 m^3/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 suspended solids up to **Ø 40 mm**
- Minimum immersion depth for continuous service: **450 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

CE

CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY
ISO 14001: ENVIRONMENT

EAC

INSTALLATION AND USE

The **VX 40** 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, filthy 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

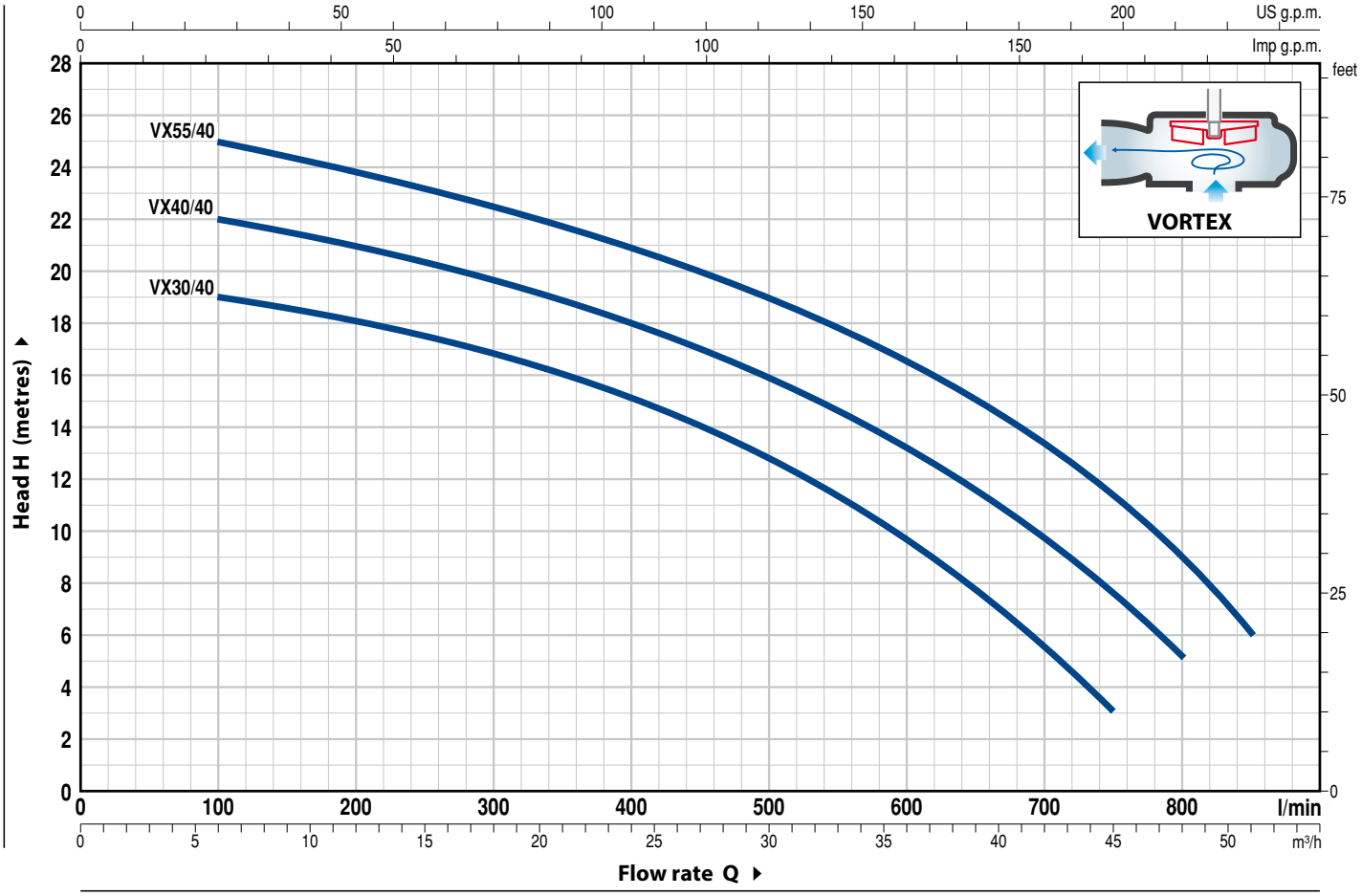
- Patent Pending

OPTIONS AVAILABLE ON REQUEST

- 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 (P2)		Q	m³/h	0	6	12	18	24	30	36	42	45	48	51
Single-phase	**Three-phase**	**kW**	**HP**		l/min	**0**	**100**	**200**	**300**	**400**	**500**	**600**	**700**	**750**	**800**	**850**
VXm 30/40	**VX 30/40**	2.2	3			20	19	18	17	15	13	9.6	5.5	3		
–	**VX 40/40**	3	4	**H**	metres	23	22	21	19.5	18	16	13	9.8	7.5	5	
–	**VX 55/40**	4	5.5			26	25	23.8	22.5	21	19	16.5	13.5	11.5	9	6

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	Ceramic	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

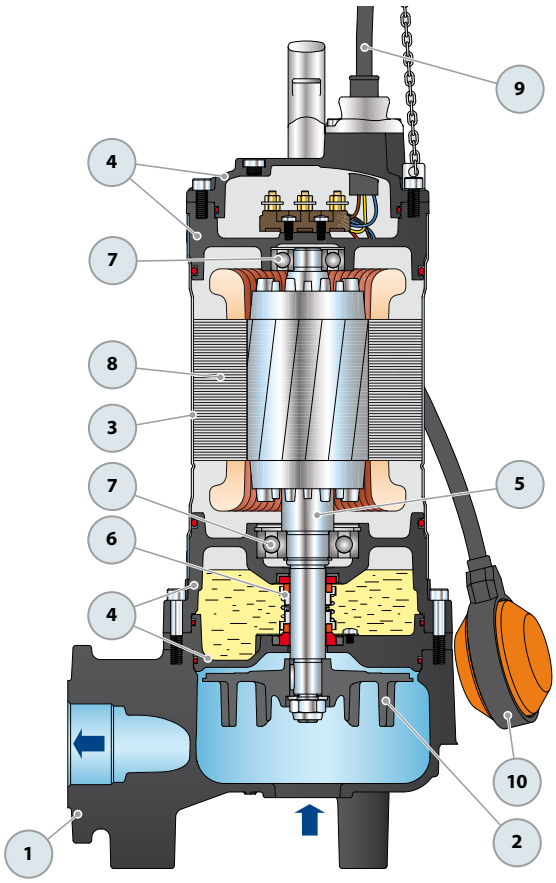
(only for single-phase versions)

11 CONTROL BOX

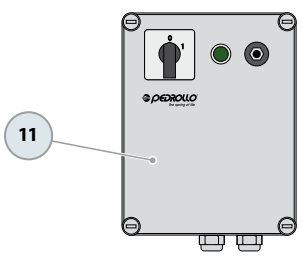
(only for single-phase versions)

With manual overload cut-out and with capacitors for starting and operating.

Pump Single-phase (220-230 V o 240 V)	*Capacitance of the operating capacitor*	*Capacitance of the starting capacitor*
VXm 30/40	**70** µF 450 VL	**80** µF 450 VL

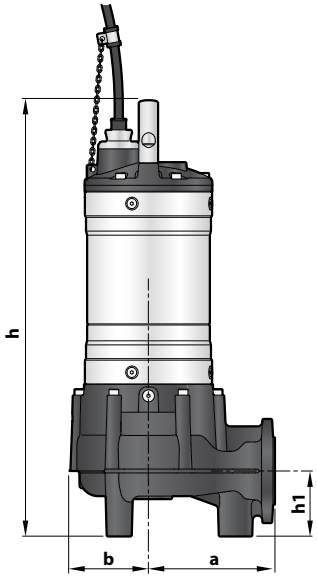


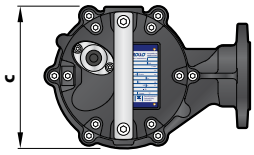
Standard features



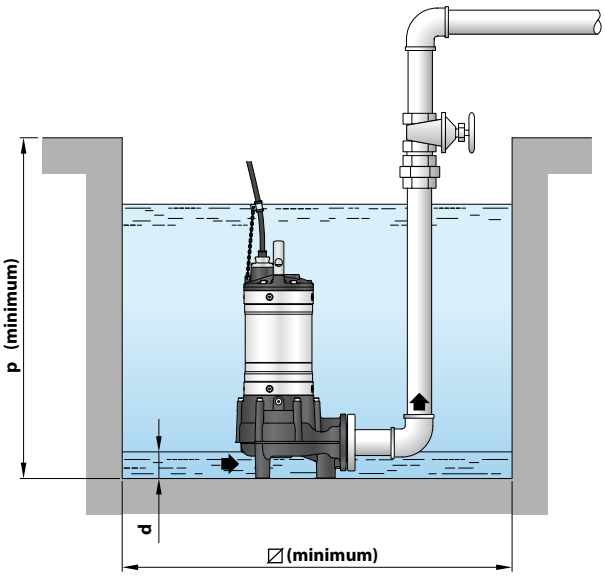
Control box
(only for single-phase version)

DIMENSIONS AND WEIGHT





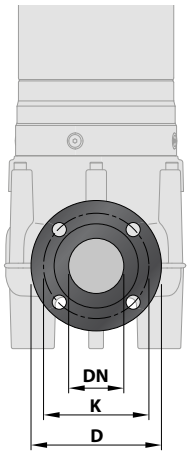
Standard installation



MODEL		Passage of solids	DIMENSIONS mm								kg	
Single-phase	Three-phase		a	b	c	h	h1	d	p	⍁	1~	3~
VXm 30/40	**VX 30/40**										**56.0**	**48.9**
–	**VX 40/40**	**Ø 40 mm**	170	107	192	627	88	60	700	500	–	**49.0**
–	**VX 55/40**										–	**54.4**

FLANGED PORT

MODEL		PORT	K	D	HOLES	
Single-phase	Three-phase	DN	mm	mm	N°	Ø (mm)
VXm 30/40	**VX 30/40**					
–	**VX 40/40**	**2"**	110	140	4	14
–	**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	CONTAINER
Single-phase	Three-phase	n. pumps	n. pumps
VXm 30/40	**VX 30/40**	**10**	**10**
–	**VX 40/40**	**10**	**10**
–	**VX 55/40**	**10**	**10**