

# VX-1

## submersible VORTEX pumps (for sewage)

**Submersible VORTEX pumps for professional use. Built completely in stainless steel and oversized, extremely reliable and suitable for continuous heavy duty service (for sewage).**



### PERFORMANCE RANGE

Flow rate up to 400 l/min (24 m<sup>3</sup>/h)  
Dynamic head up to 10 m

### OPERATING LIMITS

Maximum operating depth 5 m below water level  
Fluid temperature up to + 50°C  
Maximum passage for suspended solids Ø 50 mm

### CONSTRUCTION AND SAFETY STANDARDS:

EN 60 335-1  
IEC 335-1  
CEI 61-150

EN 60034-1  
IEC 34-1  
CEI 2-3



### PUMP INSTALLATION AND APPLICATIONS

**VX-1 PUMPS ARE DESIGNED TO LIFT DIRTY WATER WHICH IS NOT CHEMICALLY AGGRESSIVE TO THE PUMP COMPONENTS. THEIR CONSTRUCTION PRINCIPLE MAKES THEM PARTICULARLY SUITABLE FOR DOMESTIC, CIVIL AND INDUSTRIAL APPLICATIONS, IN ALL CASES WHERE SUSPENDED SOLIDS UP TO Ø 50 MM HAVE TO BE DEALT WITH, SUCH AS WATER MIXED WITH MUD, GROUNDWATER AND SURFACE WATER.**

**RECOMMENDED APPLICATIONS THEREFORE INCLUDE DRAINING FLOODING IN CONFINED AREAS SUCH AS DOMESTIC AND INDUSTRIAL BASEMENTS AND GARAGES, UNDERGROUND CAR PARKS, FOR WASHING AREAS FOR MACHINERY AS WELL AS**

**EMPTYING SWIMMING POOLS AND TANKS AND ALSO FOR PUMPING DOMESTIC WASTE, FOR EMPTYING CESSPITS, AND THE DISPOSAL OF SEWAGE, DIRTY AND WASTE WATER.** These pumps are easy to install and dependable when used automatically in fixed installations. A purpose built pit with minimum dimensions **500x500x500h mm** is recommended for fixed installations.

### WARRANTY: 1 YEAR

(according to our general sales conditions).

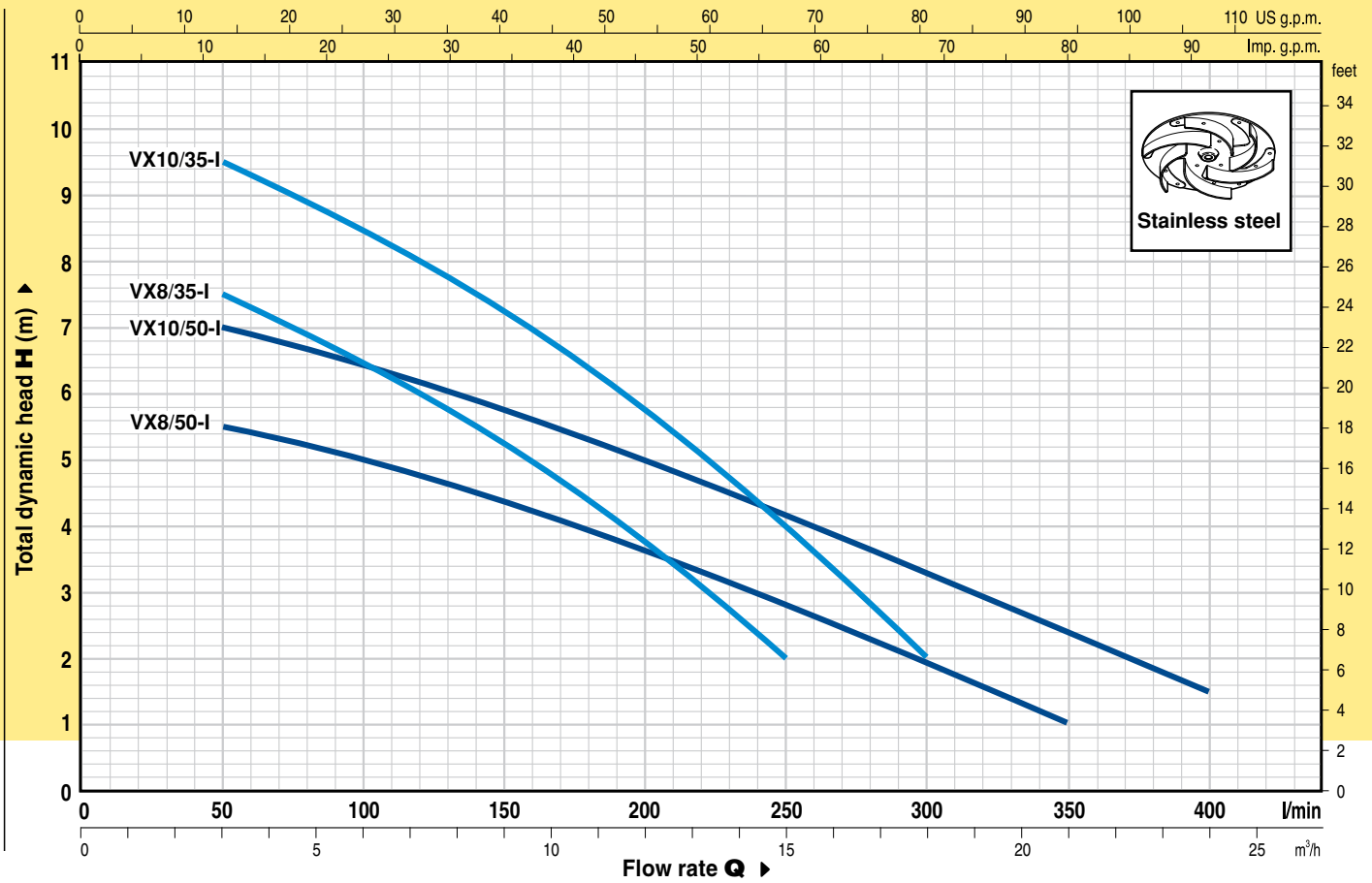
### STRUCTURAL CHARACTERISTICS

- **PUMP BODY:** AISI 304 stainless steel, with UNI ISO 228/1 1 1/2" or 2" gas threaded delivery opening.
- **MOTOR SLEEVE:** AISI 304 stainless steel.
- **BASE:** AISI 304 stainless steel.
- **IMPELLER:** AISI 304 stainless steel, open type.
- **MOTOR SHAFT:** AISI 316 stainless steel.
- **DOUBLE MECHANICAL SEAL:** silicon carbide/silicon carbide on the pump side and sealing ring on the motor side (with barrier oil chamber to lubricate and cool the sealing surfaces in the absence of water).
- **MOTOR:** sealed induction with double impregnated class F winding (ensuring extended motor life and wide range of use), designed for continuous duty, **even with the pump partially submerged (min. 250 mm)**. The thermal cutout relay (motor protector) is incorporated in single phase models.
- **PROTECTION:** IP 68.
- **SUPPLY CABLE:** "H07 RN-F" neoprene submersible. Supplied standard with 5 meters of cable, and SCHUKO plug on single phase versions.
- **EXTERNAL FLOAT SWITCH:** standard equipment.

### SPECIAL FEATURES ON REQUEST:

⇒ 10 meters supply cable, for pumps intended for outdoor use, length compulsory according to EN 60335-2-41

## PERFORMANCE CHART AT n= 2900 1/min

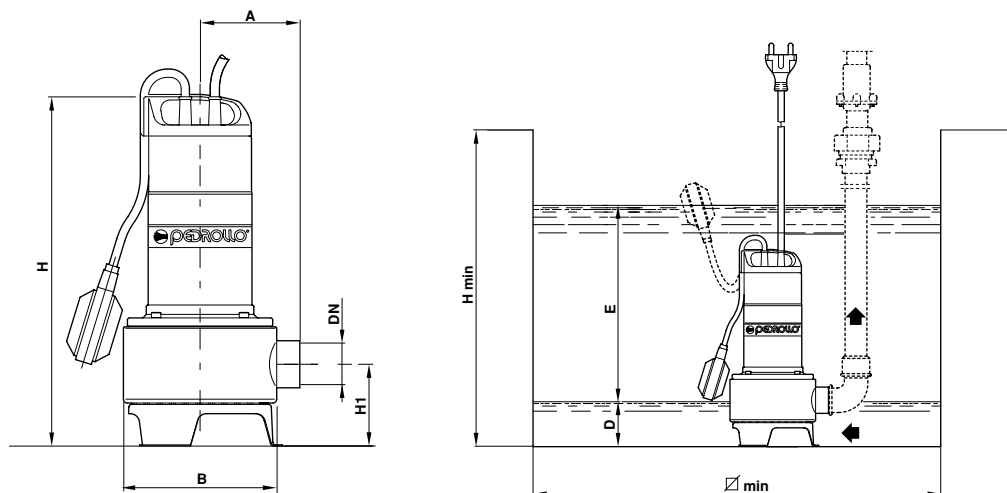


## PERFORMANCE DATA AT n= 2900 1/min

PUMP MODEL		POWER		Q m <sup>3</sup> /h	0	3	6	9	12	15	18	21	24
Single phase	Three phase	kW	HP		0	50	100	150	200	250	300	350	400
VXm 8/35-I	—	0.60	0.85	H (m)	8.4	7.5	6.5	5.2	3.7	2			
VXm 10/35-I	VX 10/35-I	0.75	1		10	9.5	8.5	7.2	5.8	4	2		
VXm 8/50-I	—	0.60	0.85		6	5.5	5	4.4	3.6	2.8	2	1	
VXm 10/50-I	VX 10/50-I	0.75	1		7.5	7	6.5	5.8	5	4	3.2	2.4	1.5

Q = FLOW RATE H = TOTAL DYNAMIC HEAD IN METERS

Curve tolerance according to ISO 2548.



## DIMENSIONS

PUMP MODEL		DN	maximum suspended solid size	DIMENSIONS mm							
Single phase	Three phase			A	B	H	H1	D min	E	H min	∅ min
VXm 8/35-I	—	1 1/2"	∅ 35 mm	108	166	380	87	40	Adjustable	500	500
VXm 10/35-I	VX 10/35-I	1 1/2"	∅ 35 mm	108	166	380	87	40	Adjustable	500	500
VXm 8/50-I	—	2"	∅ 50 mm	118	166	410	108	55	Adjustable	500	500
VXm 10/50-I	VX 10/50-I	2"	∅ 50 mm	118	166	410	108	55	Adjustable	500	500