

ZVX

submersible "VORTEX" pumps (for dirty water)

Submersible VORTEX pumps for domestic use. Economical, compact, reliable, particularly recommended for automatic use in fixed installations.

This model, thanks to the tested Vortex system, allows the emptying of dirty water mixed with suspended solid bodies without any risk of impeller blockage.



PERFORMANCE RANGE

Flow rate up to 300 l/min (18 m³/h)
Dynamic head up to 10 m

OPERATING LIMITS

Maximum operating depth 5 m below water level
Fluid temperature up to + 40°C
Maximum passage for suspended solids Ø 35 mm
Maximum emptying level 40 mm from the bottom

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

ZVX PUMPS ARE DESIGNED TO LIFT DIRTY WATER CHEMICALLY NOT AGGRESSIVE TO THE PUMP COMPONENTS. THEIR CONSTRUCTION PRINCIPLE MAKES THEM PARTICULARLY SUITABLE FOR DOMESTIC USE, IN ALL CASES WHERE SUSPENDED SOLIDS UP TO Ø 35 MM HAVE TO BE DEALT WITH. RECOMMENDED APPLICATIONS THEREFORE INCLUDE DRAINING FLOODED AREAS SUCH AS BASEMENTS AND GARAGES, AND ALSO FOR PUMPING DOMESTIC WASTE AND THE DISPOSAL OF WASTE WATER.

These pumps are easy to install and reliable when used automatically in fixed installations. A purpose built pit with minimum dimensions 450x450x450h mm is recommended for fixed installations.

WARRANTY: 1 YEAR

(according to our general sales conditions).

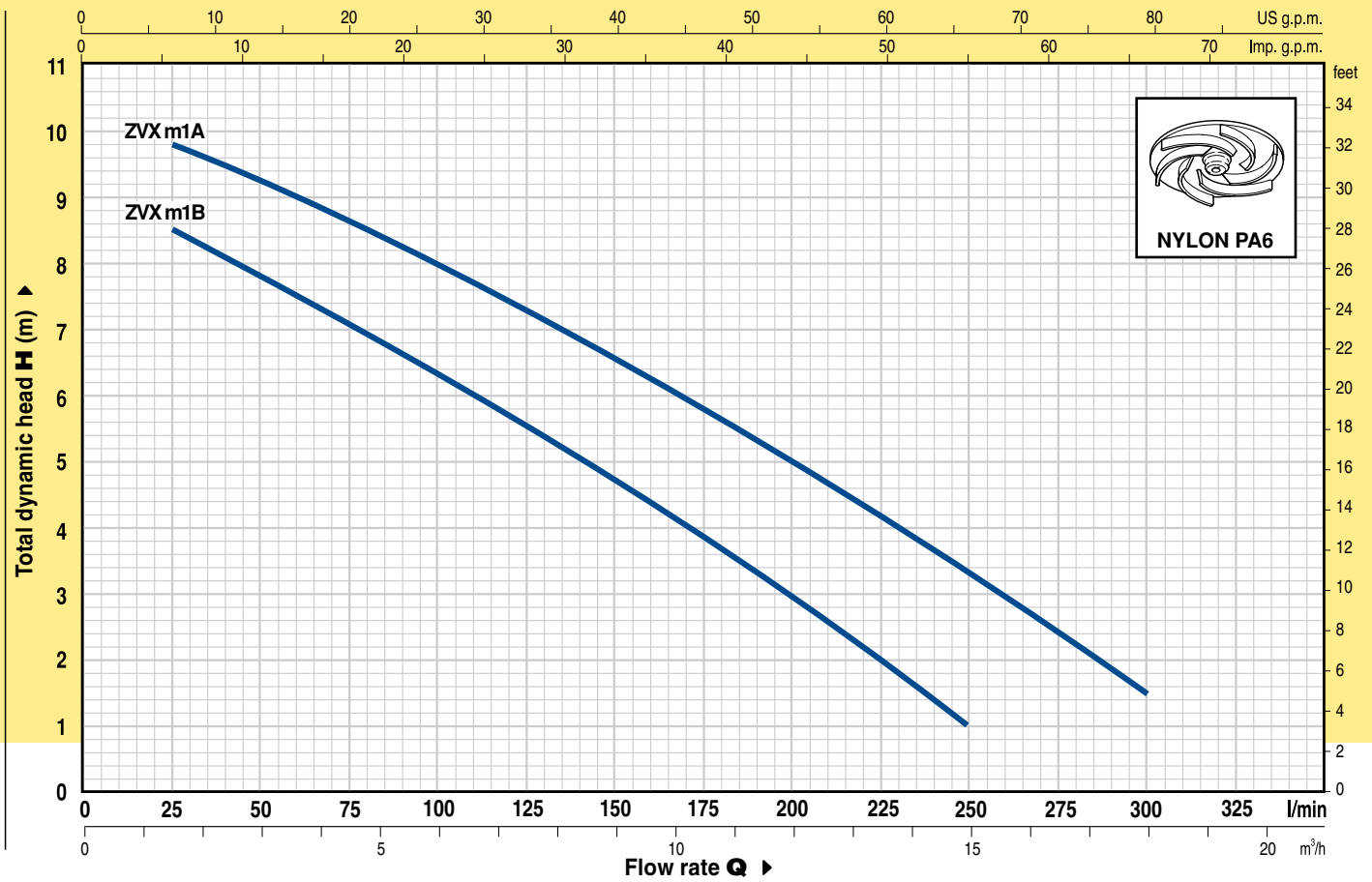
STRUCTURAL CHARACTERISTICS

- **PUMP BODY:**
cast iron, with UNI ISO 228/1 1 1/2" gas threaded delivery opening.
- **MOTOR SLEEVE:**
AISI 304 stainless steel.
- **SUCTION COVER:**
AISI 304 stainless steel .
- **IMPELLER:**
fiberglass reinforced **technopolymer**, open vortex impeller.
- **MOTOR SHAFT:**
AISI 416 stainless steel .
- **MECHANICAL SEAL:**
carbon/alumina.
- **MOTOR:**
sealed induction in oil bath designed for continuous duty. The thermal cutout relay (motor protector) is incorporated. INSULATION class B.
- **PROTECTION:**
IP 68.
- **SUPPLY CABLE:**
"H07 RN-F" neoprene submersible. Supplied standard with 5 meters of cable and SCHUKO plug.
- **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

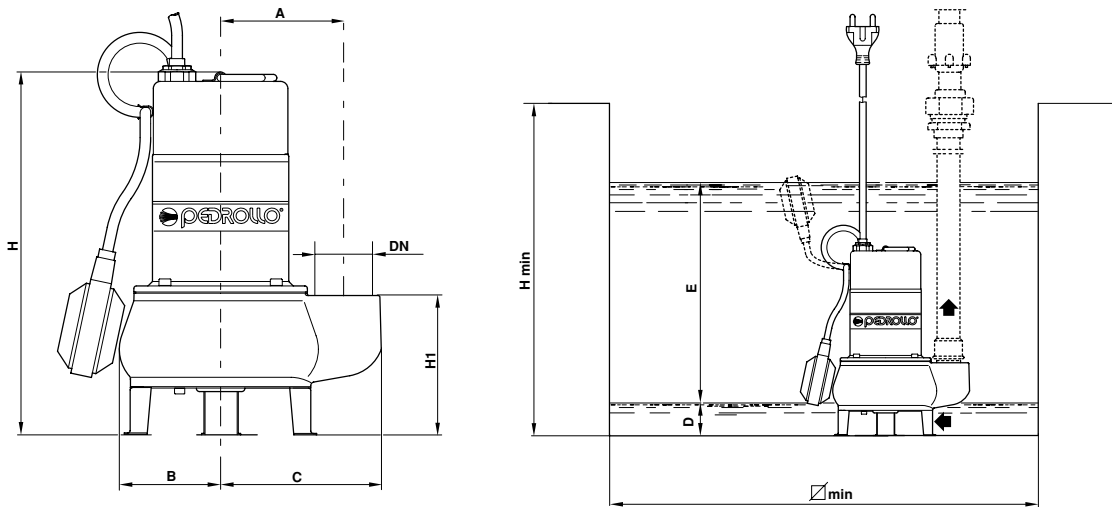


PERFORMANCE DATA AT n= 2900 1/min

PUMP MODEL	POWER		Flow rate Q																							
	kW	HP	0	1.5	3.0	4.5	6.0	7.5	9.0	10.5	12.0	15.0	18.0	25	50	75	100	125	150	175	200	225	250	275	300	
Single phase			0	25	50	75	100	125	150	175	200	250	300													
ZVXm 1B	0.50	0.70	H		9	8.5	7.8	7	6.3	5.5	4.8	3.8	3	1												
ZVXm 1A	0.60	0.85	(m)		10	9.8	9.2	8.6	8	7.3	6.5	5.8	5	3.2	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										
			A	B	C	H	H1	D min	E	H min	∅min		
Single phase													
ZVXm 1B	1 1/2"	∅ 35 mm	105	86	136	310	120	40	Adjustable	450	450		
ZVXm 1A	1 1/2"	∅ 35 mm	105	86	136	325	120	40	Adjustable	450	450		