

# TOP VORTEX

## submersible VORTEX pump (for dirty water)

These pumps, already known for the innovative design and advanced technology, has now a further robustness thanks to the substitution of the aluminium motor casing with stainless steel one.

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 180 l/min (10.8 m<sup>3</sup>/h)  
Dynamic head up to 7 m

### OPERATING LIMITS

Maximum operating depth 3 m below water level  
Maximum fluid temperature + 40°C  
Maximum passage for suspended solids Ø 20 mm  
Maximum emptying level 25 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

TOP VORTEX PUMP IS SUITABLE FOR LIFTING DIRTY WATER, NOT CHEMICALLY AGGRESSIVE TO THE PUMP COMPONENTS. THIS PUMP HAS BEEN DESIGNED FOR EASY USE AND IT IS EXTREMELY RELIABLE EVEN WHEN SUBJECTED TO CONTINUOUS USE, SINCE THE MOTOR IS FULLY COOLED. IT IS PARTICULARLY SUITED FOR DOMESTIC USE, TO DRAIN DIRTY WATER IN ALL CASES WHERE SUSPENDED SOLIDS UP TO Ø 20 MM HAVE TO BE DEALT WITH. RECOMMENDED APPLICATIONS THEREFORE INCLUDE EMPTYING OF POOLS AND TANKS, DISPOSAL OF DOMESTIC SEWAGE, EMPTYING OF SUMP PITS.

### WARRANTY: 1 YEAR

(according to our general sales conditions).

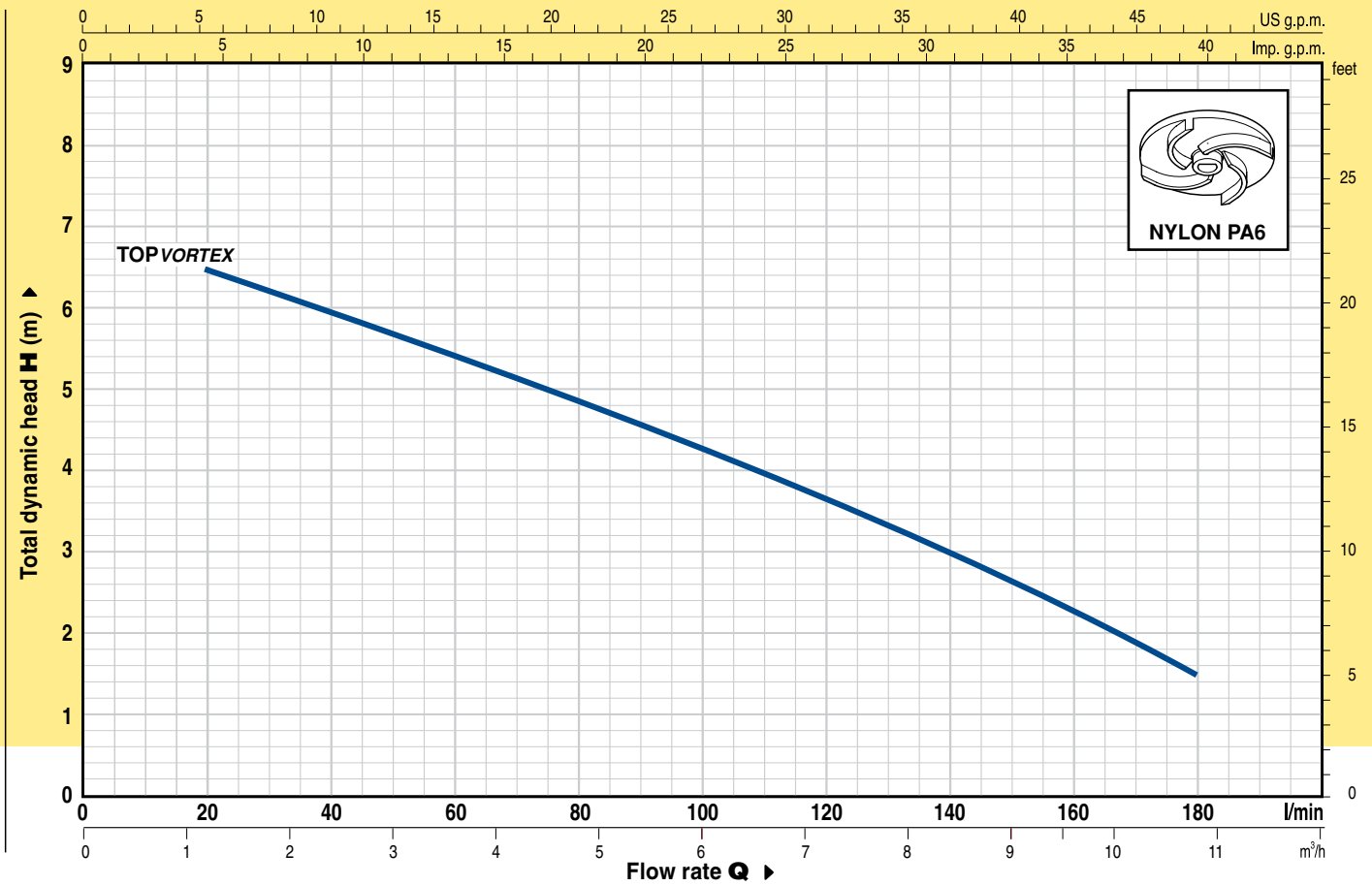
### STRUCTURAL CHARACTERISTICS

- **DELIVERY BODY and SUCTION STRAINER:** made of fiberglass reinforced **technopolymer**, particularly resistant to mechanical stress, knocks and corrosion, fitted with UNI ISO 228/1 1 1/4" gas threaded vertical delivery opening.
- **HOSE JOINT:** **technopolymer** with screw fitting.
- **IMPELLER:** fiberglass reinforced **NYLON PA6 technopolymer**, open model.
- **MOTOR CASING:** **AISI 304 stainless steel**.
- **MOTOR SHAFT:** **AISI 416 stainless steel**.
- **DOUBLE MECHANICAL SEAL:** **carbon/alumina** 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, suitable for continuous duty with built-in thermal cutout relay (motor protector). **INSULATION Class F** (provides the motor with a considerable overload tolerance and substantially increases the service life of the motor itself). Cooling of motor assured by the liquid in which the pump is immersed.
- **PROTECTION:** IP 68.
- **SUPPLY CABLE:** "H05 RN-F" neoprene submersible. Supplied standard with 5 meters of cable and SCHUKO plug.
- **EXTERNAL FLOAT SWITCH:** standard equipment.
- **REGISTERED MODEL n° 72765**

### 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

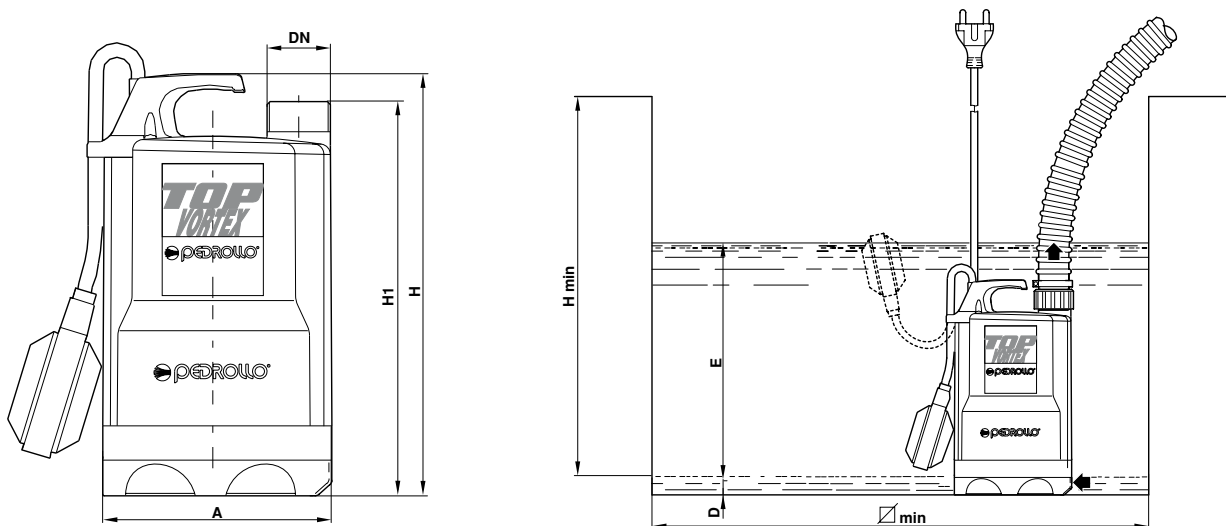


## PERFORMANCE DATA AT n= 2900 1/min

PUMP MODEL	POWER		Q	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8
	kW	HP	m³/h	0	20	40	60	80	100	120	140	160	180
Single phase			l/min										
TOP VORTEX	0.37	0.50	H (m)	7	6.5	6	5.4	4.8	4.2	3.5	3	2.5	1.5

Q = FLOW RATE H = TOTAL DYNAMIC HEAD IN METERS

Curve tolerance according to ISO 2548.



## DIMENSIONS

PUMP MODEL	DN	DIMENSIONS mm						
		A	H	H1	D min	E	H min	∅ min
Single phase								
TOP VORTEX	1 1/4"	152	285	268	25	Adjustable	350	350