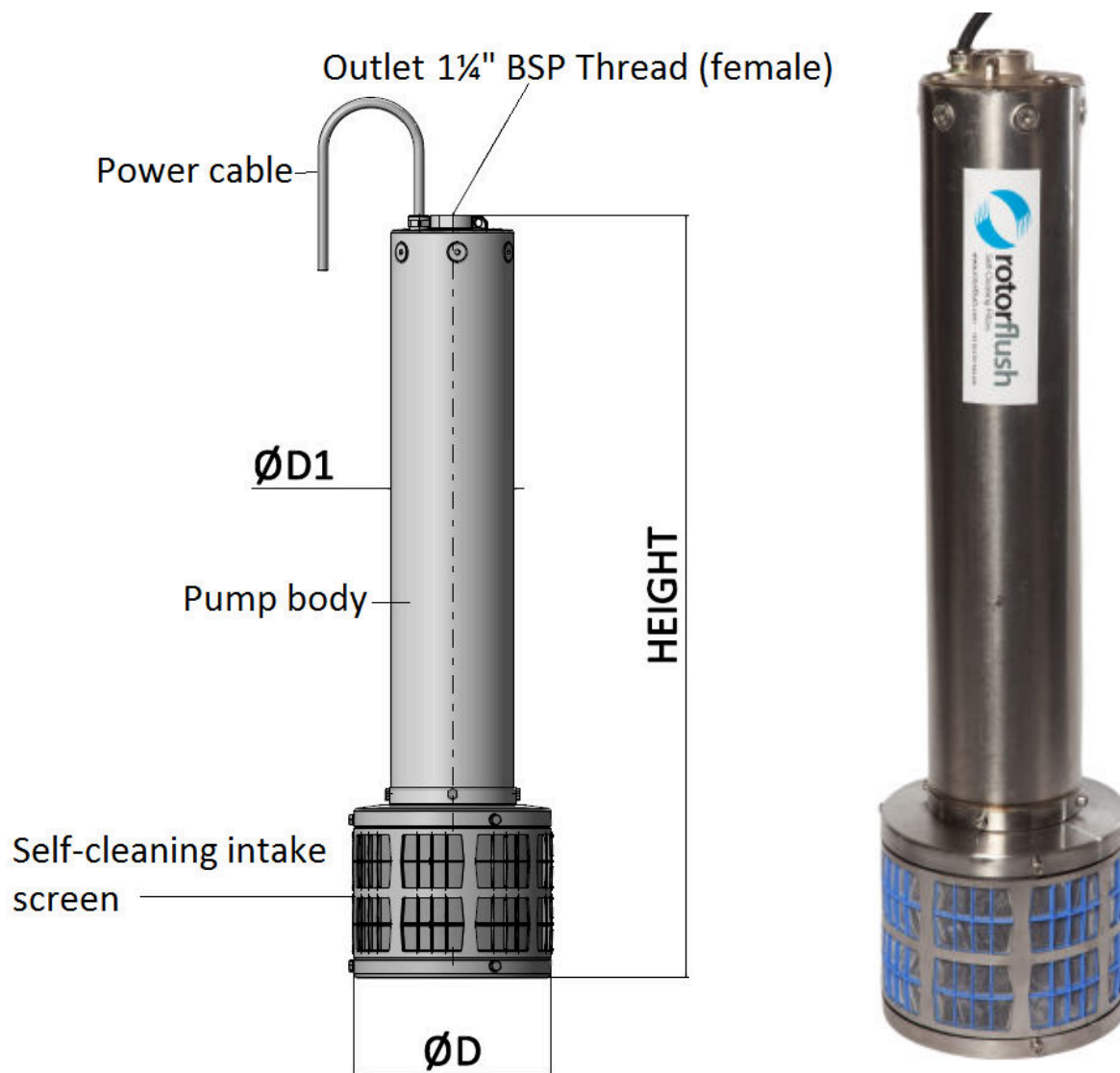


Technical Specifications Rotorflush Filterpumps

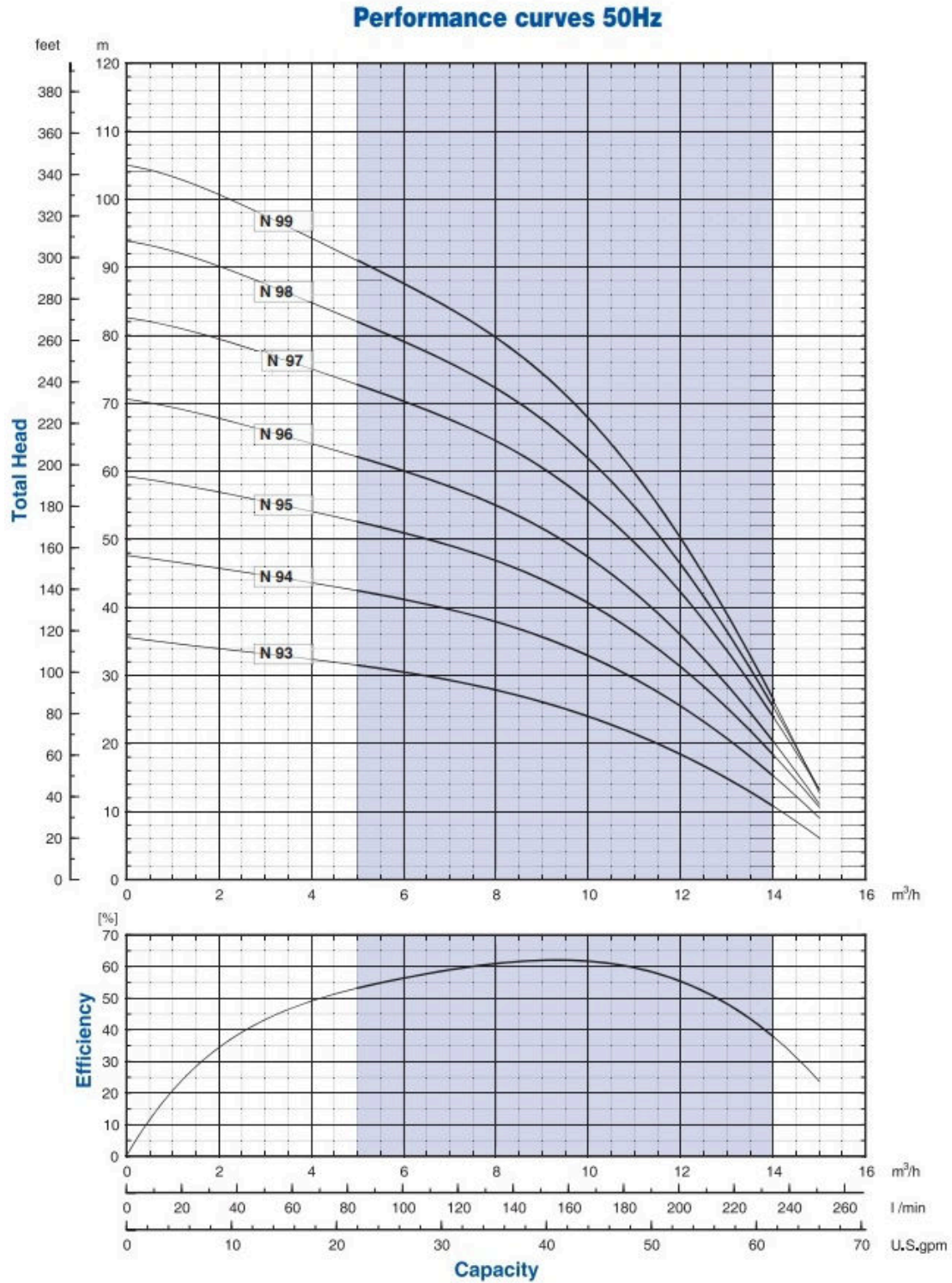
Rotorflush Nauti Range Self-cleaning Filterpumps

(Higher Pressure Submersible Centrifugal Pumps with Integral Self-cleaning Suction Intakes)

1. General Arrangements



2. Pump Output Curves

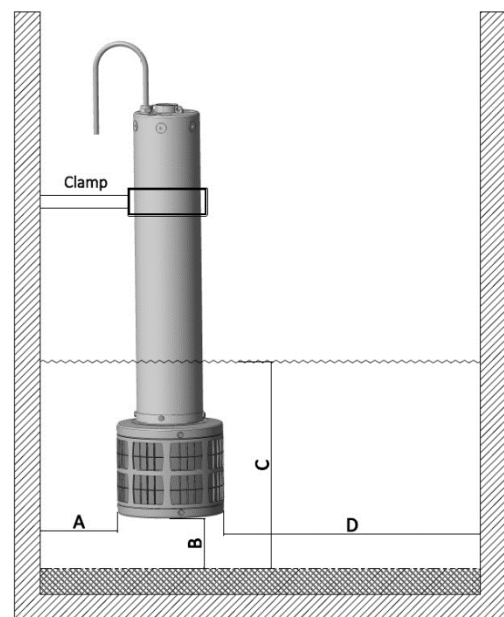
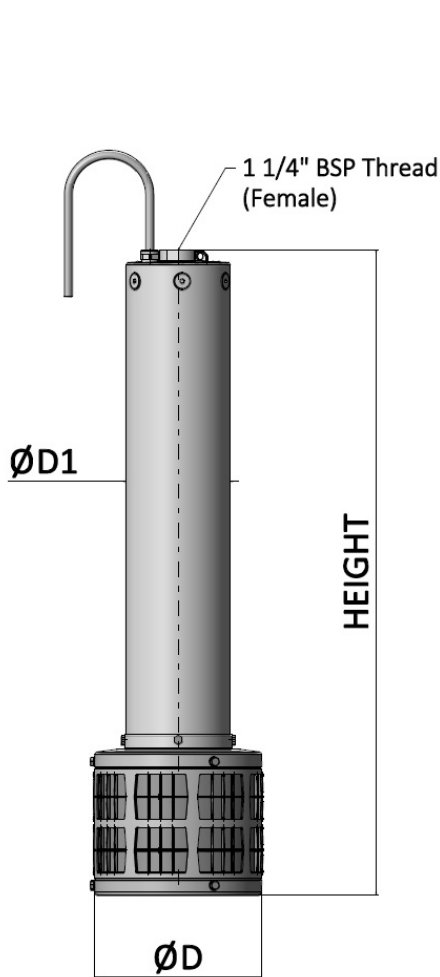


3. Rotorflush Technical Specifications Nauti N9616T 300N

Dry run protection must be provided, in the unlikely event of the filter blocking the pump will dry run and cause serious damage to the Filterpump.

Rotorflush can supply suitable equipment for cos phi load monitoring, float switches and control panels.

i. Dimensions



- A 100mm min gap to side of tank
- B 100mm min gap to top of sediment or detritus at bottom of tank
- C 250mm minimum immersion from bottom of filter.
- D If used with automatic float switch allow 600mm min gap to side of tank

Pump model	N9316	N9416	N9516	N9616	N9716	N9816	N9916
Dimension mm (Height)	650	730	760	790	820	850	880
Diameter mm D	215	215	215	215	215	215	215
Diameter mm D1	129	129	129	129	129	129	129
Weight (Kg) single phase	20.7	23.7	25.7	26.2	-	-	-
three phase	20.0	21.2	24.2	24.7	26.7	27.2	27.7
Output							
Nominal output power (KW)	1.1	1.5	2.2	2.2	3.0	3.0	3.0
Float Switch available (Single phase only)	Yes	Yes	Yes	Yes	No	No	No
T= Three Phase M= Single Phase	T&M	T&M	T&M	T&M	T	T	T

ii. Pump Construction

Pump Construction		
Liquid Handled	Type of Liquid	Water containing suspended solids (max 2000mg/litre for 250 micron screen)
	Max temperature	40 C
Maximum immersion (m)		20
Construction	Impeller	Closed centrifugal type (multiple stages)
	Shaft seal type	Double mechanical seal with oil chamber
	Bearing	Sealed ball bearing
Pipe connection	Inlet	Self-cleaning strainer
	Outlet	G 1¼" (female)
Materials	Casing	AISI 304
	Casing cover	AISI 304
	Impeller	AISI 304 Stainless steel
	Diffuser	AISI 304 Stainless steel
	Shaft	AISI416
	Shaft seal	Pump side: Sic/Sic/FPM Motor side: Carbon/Ceramic/NBR
Lubricating Liquid		White mineral oil: Esso Marcol 82 (50 ml)

iii. **Motor Construction**

4. Motor Construction		
Type	Submersible dry type	
	Single Phase	Three Phase
No. of Poles	2	
Rotation speed (min ⁻¹)	2800	
Insulation Class	Class F	
Protection degree	IP 68	
Power rating	kW 1.1 – 2.2	1.5 – 3.0
	HP 1.5 – 3.0	2.0 – 4.0
Frequency	50 Hz	
Voltage (V)	220 – 240	380 - 415
Capacitor	external	-
Overload protection	1.1 kW built in >1.1kW provided by user	Provided by user
Float Switch	Optional	-
Power cable material Length (metres)	H07RN-F	
	20	
Type of cable entry	Cable gland	

iv. **Self-Cleaning Suction Intake Construction**

Self-cleaning Suction Inlet Filter Construction	
Filter screen area	476 cm ²
Screen sizes	Standard 300 micron nylon 115 and 60 microns available
Screen material	Bias cut nylon filter mesh
Impeller extension shaft	AISI 304
Impeller	AISI 304 stainless steel
Rotor	Acetal copolymer
Rotor bearings	Silicon carbide Acetal copolymer housing
Filter cage	AISI304 stainless steel

v. **Power**

Model / Type Pump		Power		Capacitor (Single Phase)		Input	Full Load Current (A)	
Single Phase 230V, 50Hz	Three Phase 230/400V, 50Hz	KW	HP	uF	V1	kW	Single Phase	Three Phase
N9316M	N9316T	1.1	1.5	30	450	1.6	7.5	2.8
N9416M	N9416T	1.5	2	35	450	2.1	10.2	3.65
N9516M	N9516T	2.2	3	45	450	2.5	11.8	4.5
N9616M	N9616T	2.2	3	45	450	2.8	13.0	5.1
	N9716T	3	4	-	-	3.2	-	6.3
	N9816T	3	4	-	-	3.6	-	6.9
	N9916T	3	4	-	-	4.0	-	7.4