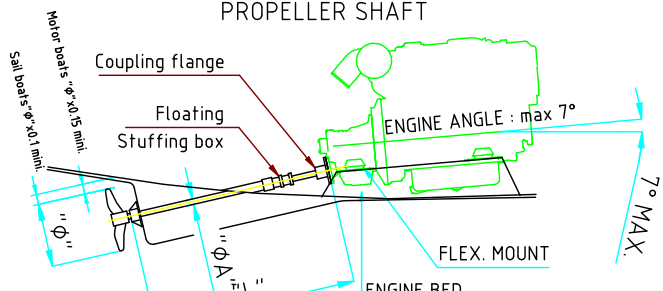


### PROPELLER SHAFT

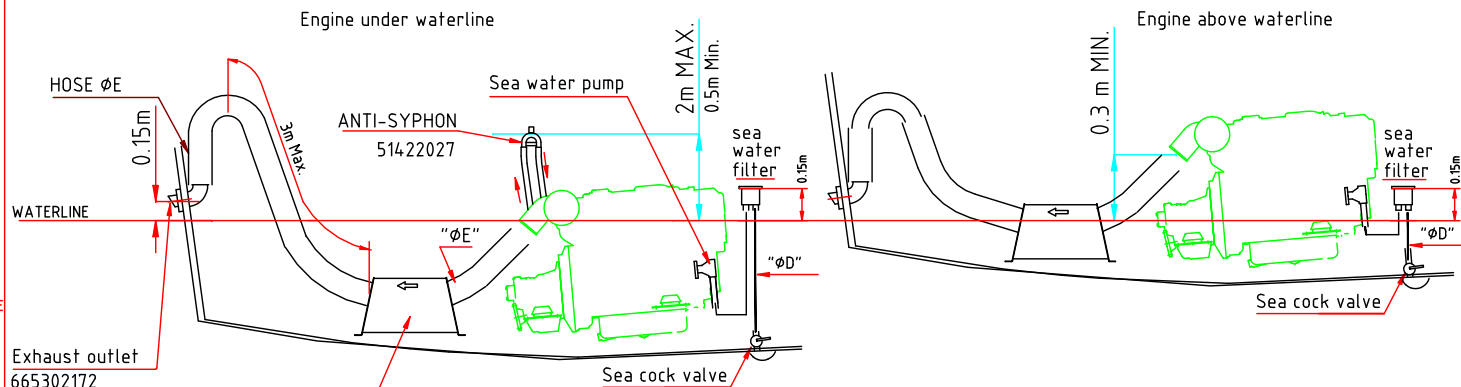


**ENGINE BED**  
RIGID STRUCTURE ABLE TO ABSORB ALL THE DYNAMICAL STRESS, AND THE ENGINE WEIGHT. IT MUST BE LINKED TO THE HULL WITH A SURFACE AS LARGE AS POSSIBLE

ENGINE	REDUCTION RATIO	"φA" (mm)	"φ" (inches)	"L" (m)	ENGINE RPM		
					IDLING	MAXI	MAXI (W/O load)
N4.115	1.5	40	17"-18"	1.65	800/850	2600	2850/2870
	2	40	20"-21"	1.8			
	2.5	40	23"-24"	2.2			

\* OTHER DIAMETER ACCORDING TO MATERIAL ; CONSULT SHAFT LINES' MANUFACTURER  
 \*\* FOR PROPELLER CALCULATION, PLEASE FILL IN THE "PROPELLER STUDY" FORM  
 \*\*\* MAXIMUM VALUE ACCEPTED

### SEA WATER PICK-UP AND EXHAUST LINES



Exhaust outlet  
665302172

Waterlock 970 311 174  
"V"

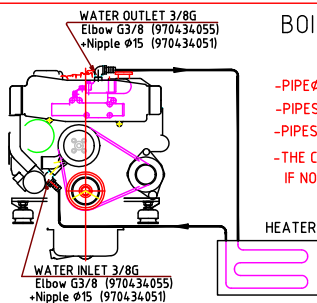
-ANTI SYPHON VALVE  
IT MUST BE AT THE END OF RAW WATER PIPING BEFORE EXHAUST ELBOW INLET

ENGINE	"φD" (mm)	"φE" (mm)	Max. back-pressure (bar/PSI)	"V" mini. (litre)
N4.115	32	104	0.127/1.842	22

All sail boat "Motor boats speed >12 Nds"

-WATER LOCK  
IT MUST BE ALWAYS LOWER AND NEAR THE ENGINE

### BOILER CONNECTION

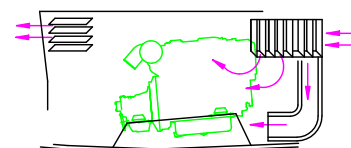


-PIPE φ = 15 mm  
 -PIPES TO BE AS SHORT AS POSSIBLE WITH A MINIMUM BEND  
 -PIPES TO BE FLEXIBLE(Max temp hoses 100°C)  
 -THE CALORIFIER MUST BE LOCATED BELOW THE ENGINE LEVEL IF NOT POSSIBLE CONTACT US.

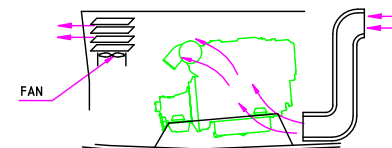
### AIR REQUIREMENT

-VENTILATION SYSTEM  
 -DYNAMICAL (FOR FAST BOAT)  
 -FORCED (BY FAN)  
 -AIR NEEDS  
 a) OUTLET OF WARM AIR : 500 m<sup>3</sup>/h  
 b) ENGINE AIR CONSUMPTION : 400 m<sup>3</sup>/h  
 -ENGINE ROOM TEMPERATURE  
 -NO MORE THAN 50°C  
 -WITH 15°C DIFFERENCE (20°C MAX.) WITH AMBIENT TEMPERATURE  
 -AIR FLOW  
 -FRESH AIR INLET, ON THE FRONT IN THE LOWER PART OF THE ENGINE ROOM AND WARM AIR OUTLET ON THE BACK IN THE UPPER PART  
 -AVOID SHORT-CIRCUIT BETWEEN INLET AND OUTLET IN ORDER TO HAVE A MAXIMUM AIR MOVE

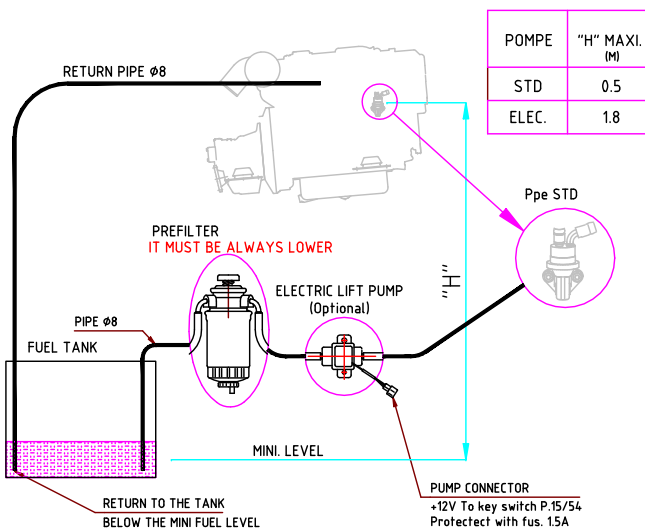
#### DYNAMICAL SYSTEM



#### FORCED SYSTEM



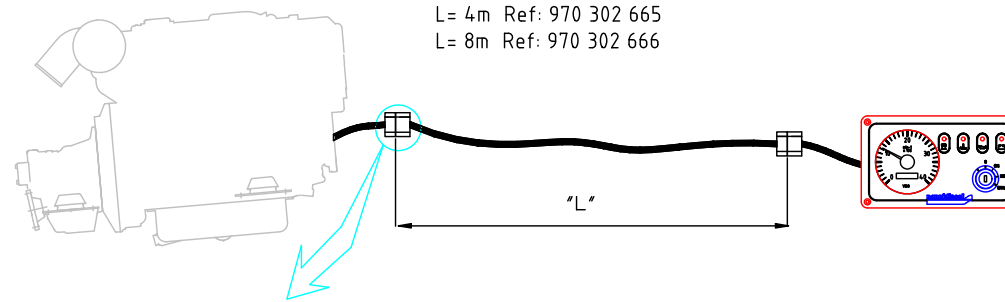
### FUEL CONNECTIONS



POMPE	"H" MAXI. (M)
STD	0.5
ELEC.	1.8

### ELECTRICAL WIRINGS (A3/B3/C3 PANEL)

CONNECTOR	
1	+
2	-
3	STARTER
4	PREHEATING
5	STOP
6	OIL SENDER unused
7	D+
8	OIL SWITCH
9	WATER SWITCH
10	WATER SENDER unused
11	REV. COUNT.



ECH.	DESSINE LE 20-09-06	PAR PL	VERIF.
INSTALLATION DETAILS			
N4.115			
Ind A 10/05/2007			/

21 - Av. Marianne - BP 107  
33040 LA TESTE - FRANCE

12	1111	7196
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CE DESSIN EST LA PROPRIETE DE NANNI INDUSTRIES ET NE PEUT ETRE REPRODUIT OU COMMUNIQUE SANS SON AUTORISATION