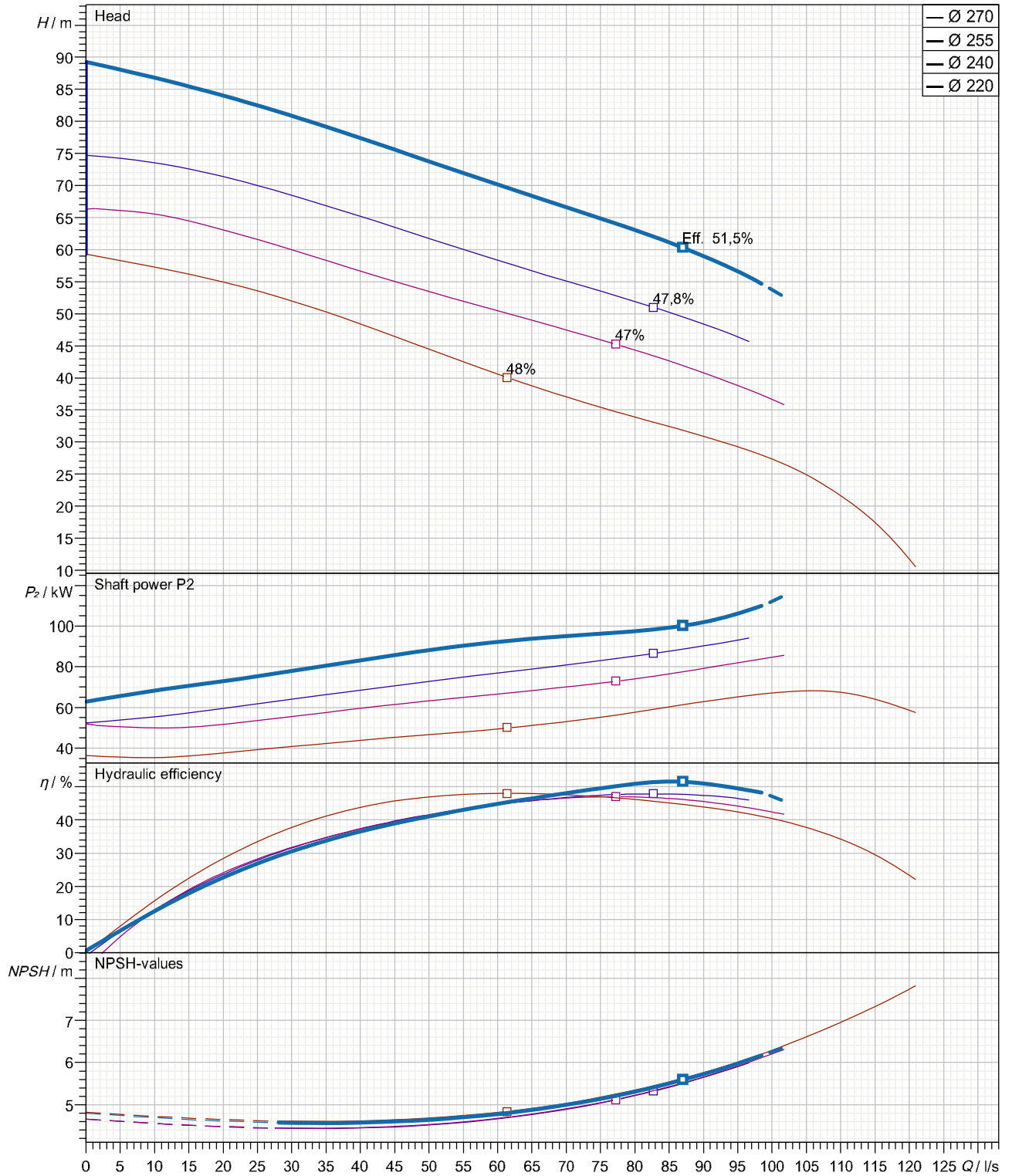


data referred to Water; 20°C; 998,3kg/m<sup>3</sup>; 1,001mm<sup>2</sup>/s

Tolerances acc. ISO 9906 Grade 2B



Curves are approximate, pump is guaranteed for one set of conditions (capacity, head, efficiency).

Submersible, centrifugal, non-clogging sewage pump PX4-150.0-2 VORTEX 1 capable of handling raw,unscreened sewage.

The pumps manufactured within European Union with the latest manufacturing and environmental standards and practical standard features as :

- Vortex impeller made in ductile iron GGG40 are of non clogging design
- Channel and vortex impellers can be accommodated in the same volute. This advance together with possibility to be trimmed allow to meet changing duties.
- Wear rings with 'reducer' clearances system allow to be re-positioned axially in order to reduce the clearances between the channel impeller and volute.
- Fast lock connection system latch bolts made in stainless steel for easy removal of the motor together with impeller from the volute.

Submersible motor type M4.2C - 110 IE2 can be capable of operating continuously in submerged for wet installation. Cooling jacket with Internal cooling system is available as option.

-Electrical motor PXFLOW -SIEMENS high efficiency class IE2 have Class H insulation (rated for 180 degrees Celsius)as standard

-Separate sealed terminal connection area

-Rotor shaft oversized made in stainless steel and oversized ball bearings ensuring smooth and vibration free running with extended life time as result.

-Shaft sealing system consist of double mechanical seals built into a replaceable cartridge facilitate quick changes even on-site without special tools.

Motor protections :

- Three thermal overload switches, one per phase, internally wound to combat high temperature loads.
- Built-in moisture sensors to terminal connection area (upper motor side), inside the motor (lower side) and in oil chamber

Materials

PX4-150.0-2 VORTEX 1 ( Vortex impeller )+110 kW

-Motor housing, volute :cast iron GG -25

-Impeller : ductile iron GGG40

-Shaft, cartridge sleeve :stainless steel 431

-Shaft seal:Media side sic/sic

Cooling side sic/sic

-Bearings:upper:single row deep groove ball bearing

lower: double angular contact ball bearing

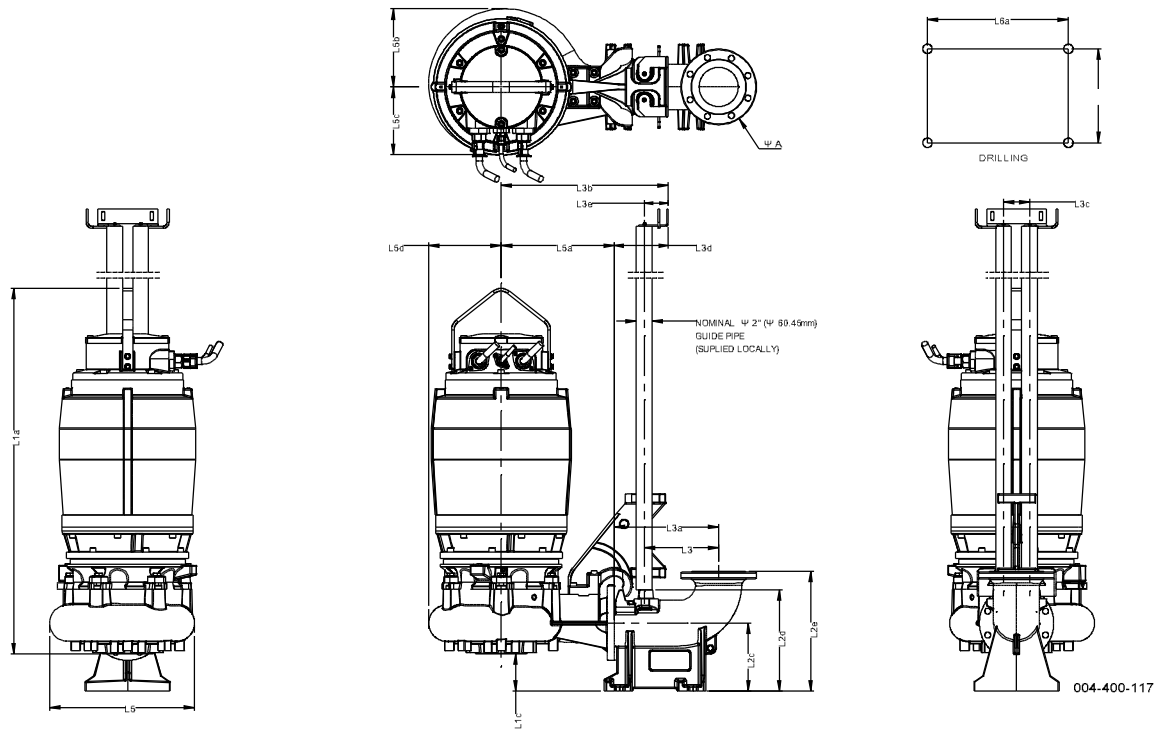
wet pit installation accesories set (on request)

-Discharge connection bracket (DCB):cast iron GG -25 (standard) or stainless steel (option)

-adapter : ductile iron GGG40 (standard) or stainless steel (option)

-Upper guide bracket (UGB):galvanize steel (standard) or stainless steel (option)

**PX4-150.0-2 VORTEX 1 With motor M4.2C-110 IE2**



Dimensions		Dimensions	
Name	mm	Name	mm
L1a	1399	L5a	433
L1c	143	L5b	299
L2c	259,5	L5c	261
L2d	389	L5d	278
L2e	460	L6a	280
L3	285	L6b	203,6
L3a	400		
L3b	548		
L3c	100		
L3d	206		
L3e	91		
L5	556		

**For Discharge connection bracket :**

Outlet flange - Standard : DN150 / PN10 - Option : DN 200 / PN10  
- Option :6" ANSI class 125 - Option :8" ANSI class 125

**For pump :**

Outlet flange - Standard : DN150 / PN10 - Option :DN 200 / PN10  
- Option :6" ANSI class 125 - Option :8" ANSI class 125

Suction flange - Standard : DN150 / PN10 - Option : 6" ANSI class 125

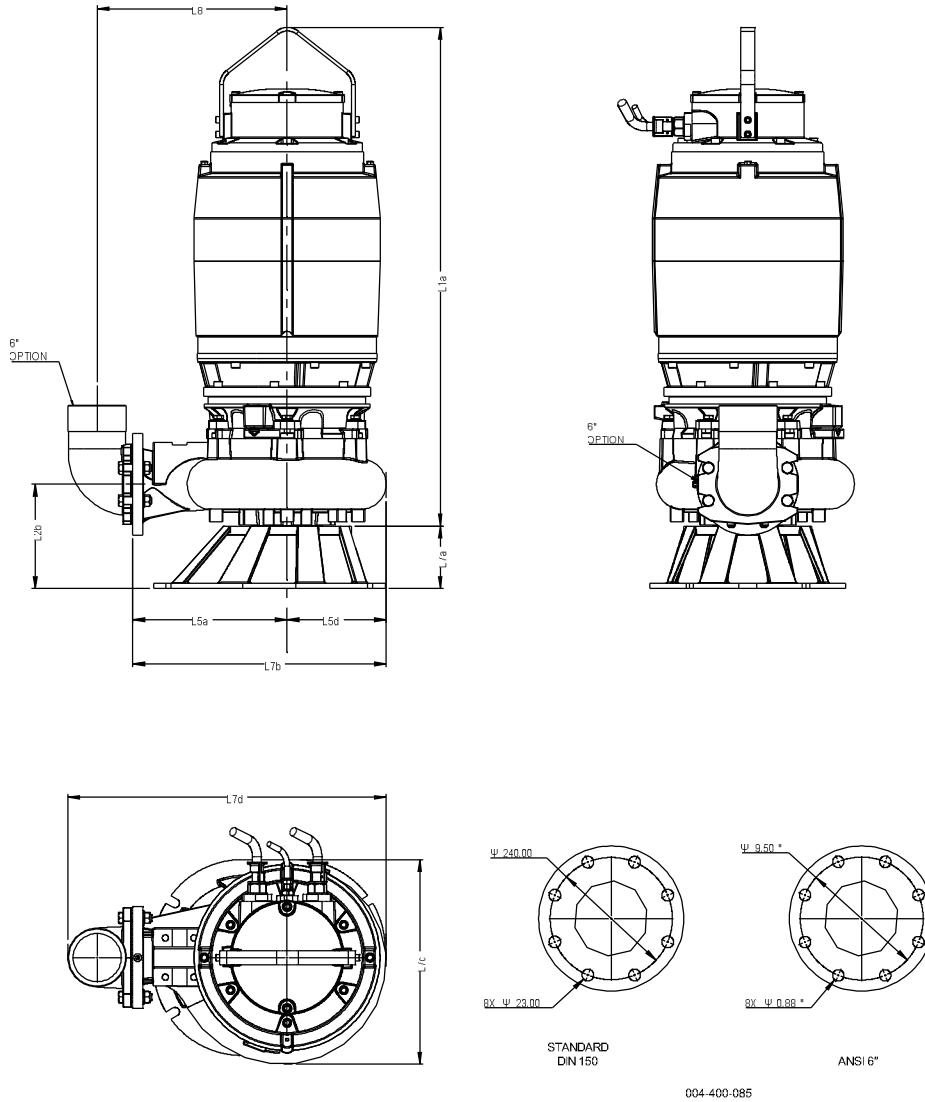
Weight of Pump with cooling jacket = 801 kg  
( without cooling jacket : - 125 kg )

Weight of Adapter = 33 kg

Weight of Discharge connection bracket (DCB) 150 = 67

Weight of Discharge connection bracket (DCB) 200 = 93

**PX4-150.0-2 VORTEX 1 With motor M4.2C-110 IE2**



004-400-085

Dimensions		Dimensions	
Name	mm	Name	mm
L1a	1399		
L2b	292,5		
L5a	433		
L5d	278		
L7a	175		
L7b	711		
L7c	574		
L7d	893		
L8	433		

Outlet for hose - Option : " 150mm (6")

For pump :

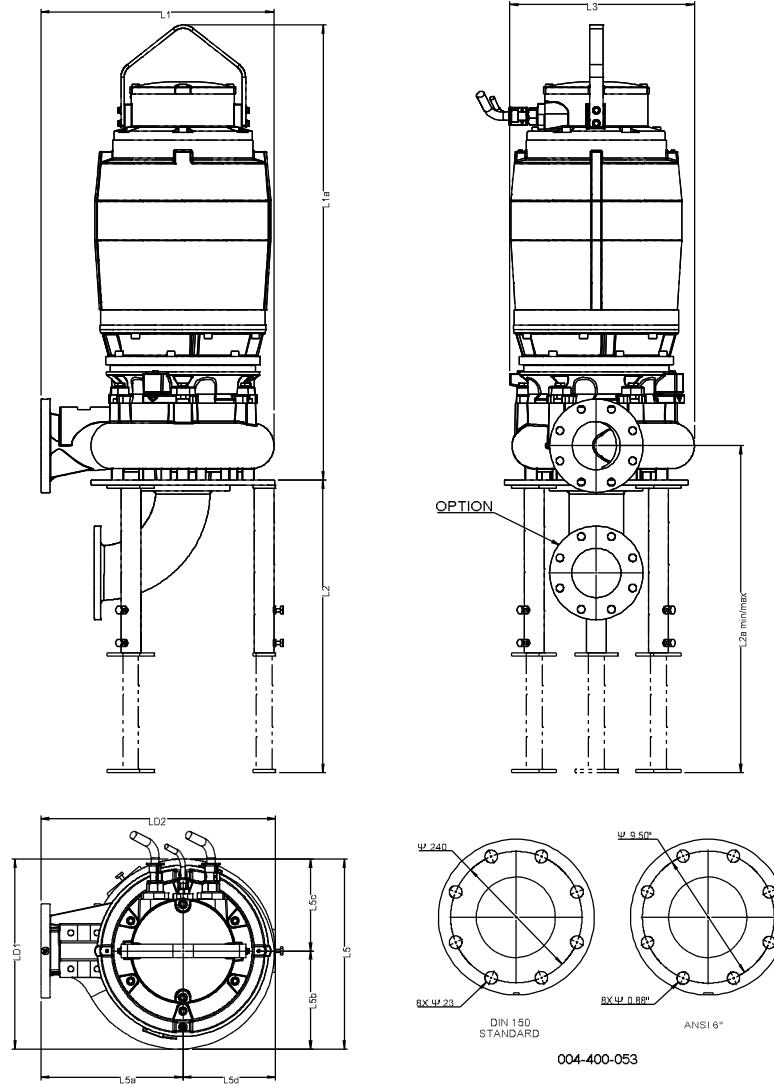
Outlet flange - Standard : DN150 / PN10  
- Option : 6" ANSI class 125

Suction flange - Standard : DN150 / PN10  
- Option : 6" ANSI class 125

Weight of Pump with cooling jacket = 801 kg  
( without cooling jacket : - 125 kg )

Weight of Base for Transportable = 34 kg

**PX4-150.0-2 VORTEX 1 With motor M4.2C-110 IE2**



004-400-053

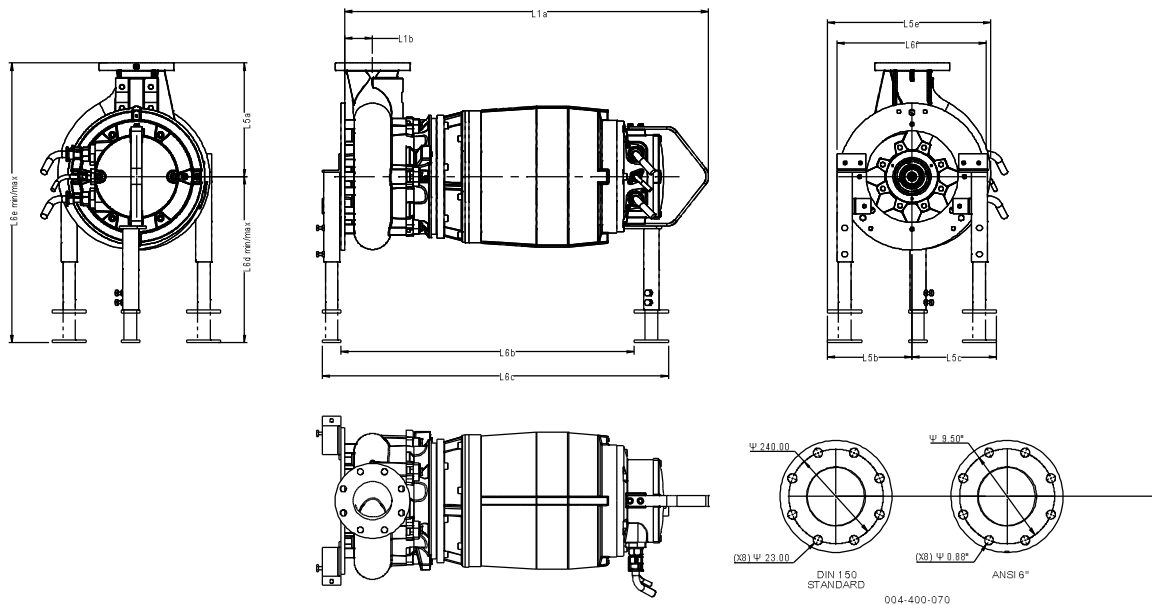
Dimensions		mm	Dimensions		mm
Name	Value		Name	Value	
L1	711		LD2	713	
L1a	1387				
L2	890				
L2a max	996				
L2a min	641				
L3	564				
L5	579				
L5a	433				
L5b	299				
L5c	280				
L5d	283				
LD1	579				

Outlet flange - Standard : DN150 / PN10  
- Option : 6" ANSI class 125

Suction flange - Standard : DN150 / PN10  
- Option : 6" ANSI class 125

Weight of Pump with cooling jacket = 801 kg  
Weight of Adjustable Legs = 35 kg

### PX4-150.0-2 VORTEX 1    With motor    M4.2C-110 IE2



Dimensions	mm	Dimensions	mm	
Name	Value	Name	Value	Outlet flange    - Standard : DN150 / PN10 - Option : 6" ANSI class 125  Suction flange    - Standard : DN150 / PN10 - Option : 6" ANSI class 125  Weight of Pump with cooling jacket = 801 kg Weight of Adjustable Legs = 33 kg
L1a	1387	L6f	570	
L1b	105			
L5a	433			
L5b	322			
L5c	294			
L5e	621			
L6b	977			
L6c	1173			
L6d max	633			
L6d min	519			
L6e max	1066			
L6e min	946			