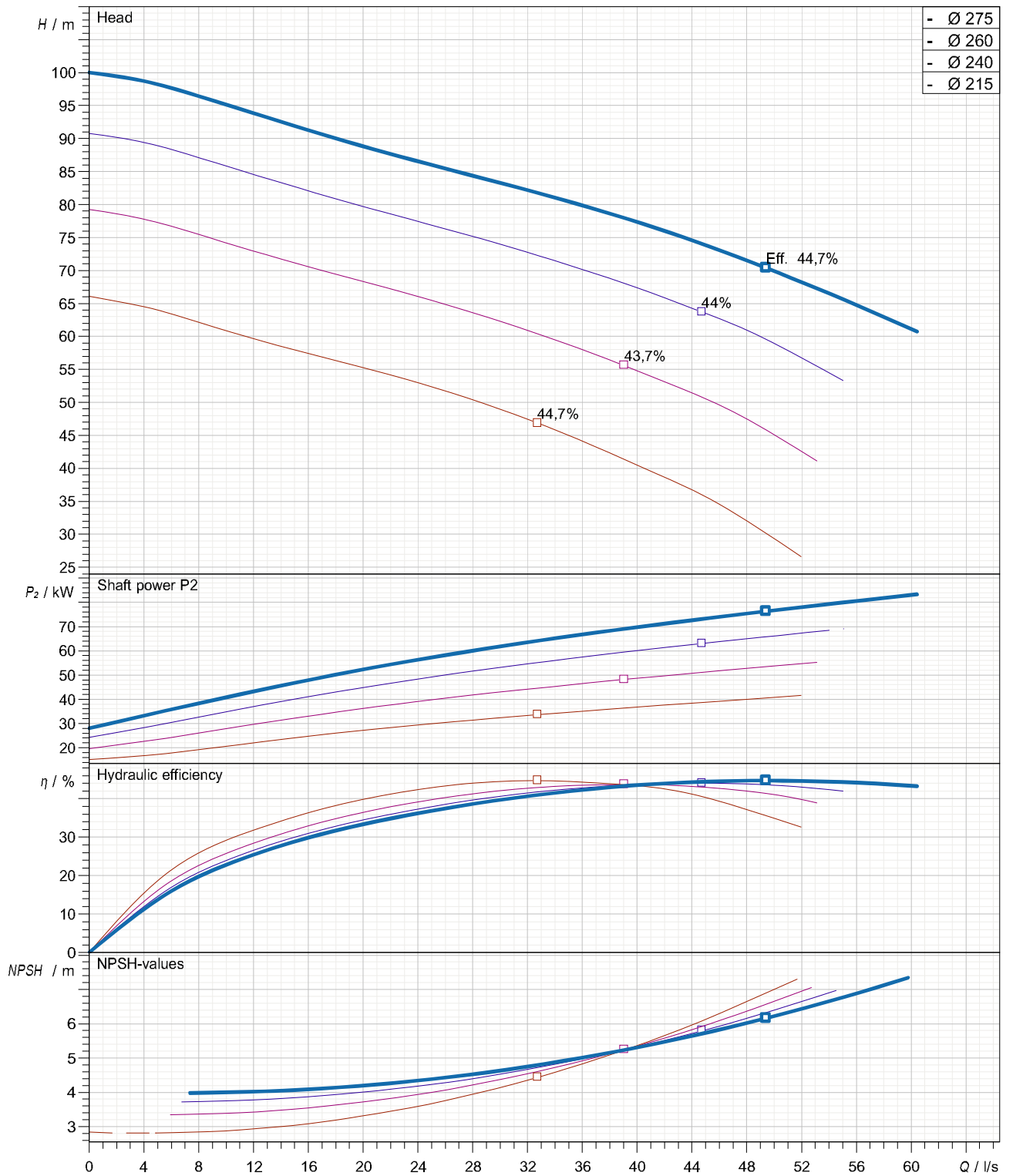


data referred to : Water; 20°C; 998,3kg/m<sup>3</sup>; 1,001mm<sup>2</sup>/s

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- 80.0-2 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

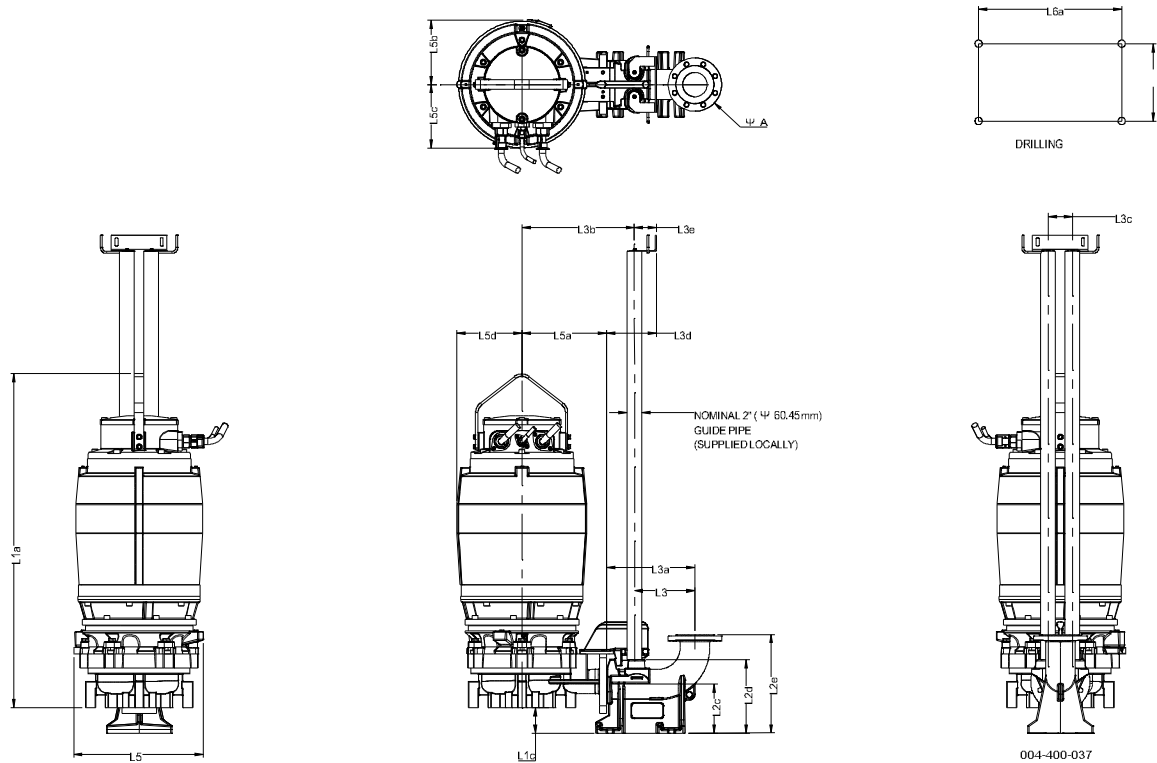
PX4- 80.0-2 VORTEX 1 ( Vortex impeller )+110kW

- 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)

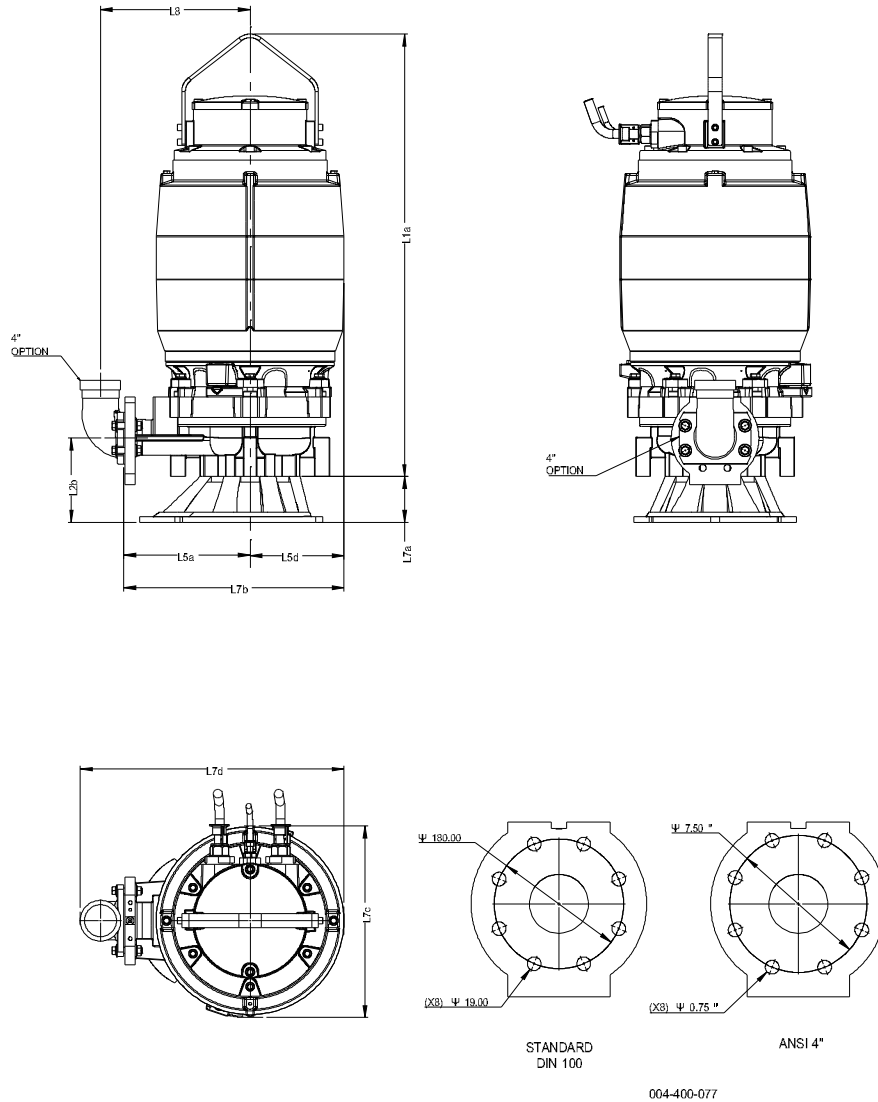
- Discharge connection bracket (DCB):cast iron GG -25 ( standard) or stainless steel (option)
- adapter : ductile iron GGG40 (standard) or stainless steel (option)
- Upper guide bracket (UGB):galvanize steel (standard) or stainless steel (option)

**PX4- 80.0-2 VORTEX 1 With motor M4.2C-110 IE2**



Dimensions		Dimensions			
Name	mm	Name	mm		
L1	1375	L5a	258,5	For Discharge connection bracket :	
L1c	104	L5b	267	Outlet flange - Standard : DN100 / PN10 - Option : 4" ANSI class 125	
L2c	202	L5c	260	- Option : DN150 / PN16- Option : 6" ANSI class 125	
L2d	303	L5d	268	For pump :	
L2e	405,5	L6a	253	Outlet flange - Standard : DN100 / PN10	
L3	249	L6b	140	- Option : 4" ANSI class 125	
L3a	364			Suction flange - Standard : DN150 / PN16- Option : 6" ANSI class 125	
L3b	463			- Option : DN100 / PN16 - Option : 4" ANSI class 125	
L3c	100			Weight of Pump with cooling jacket = 790 kg	
L3d	206			( without cooling jacket : - 125 kg )	
L3e	91			Weight of Adapter = 10 kg	
L5	534			Weight of Discharge connection bracket (DCB) 100 = 47 kg	
				Weight of Discharge connection bracket (DCB) 150 = 67 kg	

**PX4- 80.0-2 VORTEX 1 With motor M4.2C-110 IE2**



004-400-077

Dimensions	mm	Dimensions	mm
Name	Value	Name	Value
L1a	1375		
L2b	234		
L5a	348,5		
L5d	265		
L7a	127		
L7b	614		
L7c	530		
L7d	737		
L8	416		

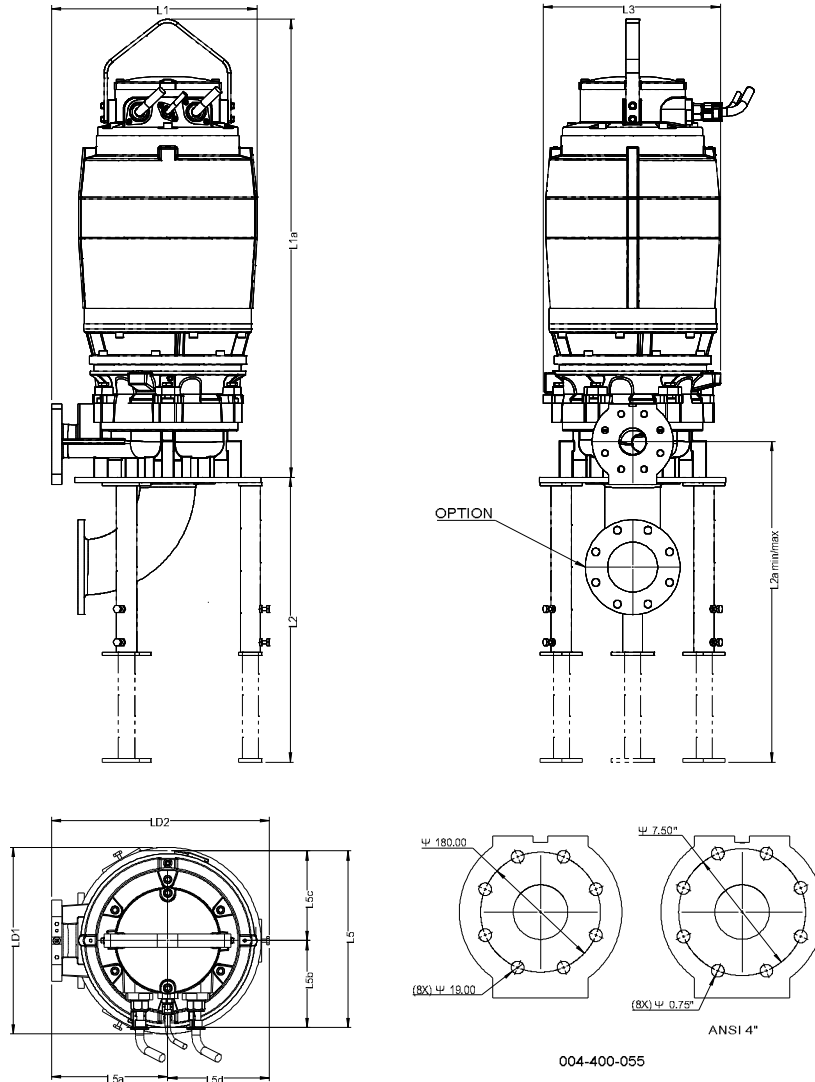
Outlet for hose - Option : " 100mm (4")

For pump :  
Outlet flange - Standard : DN100 / PN10  
- Option : 4"ANSIclass 125

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

Weight of Pump with cooling jacket = 790 kg  
( without cooling jacket : - 125 kg )  
Weight of Base for Transportable = 34 kg

**PX4- 80.0-2 VORTEX 1 With motor M4.2C-110 IE2**



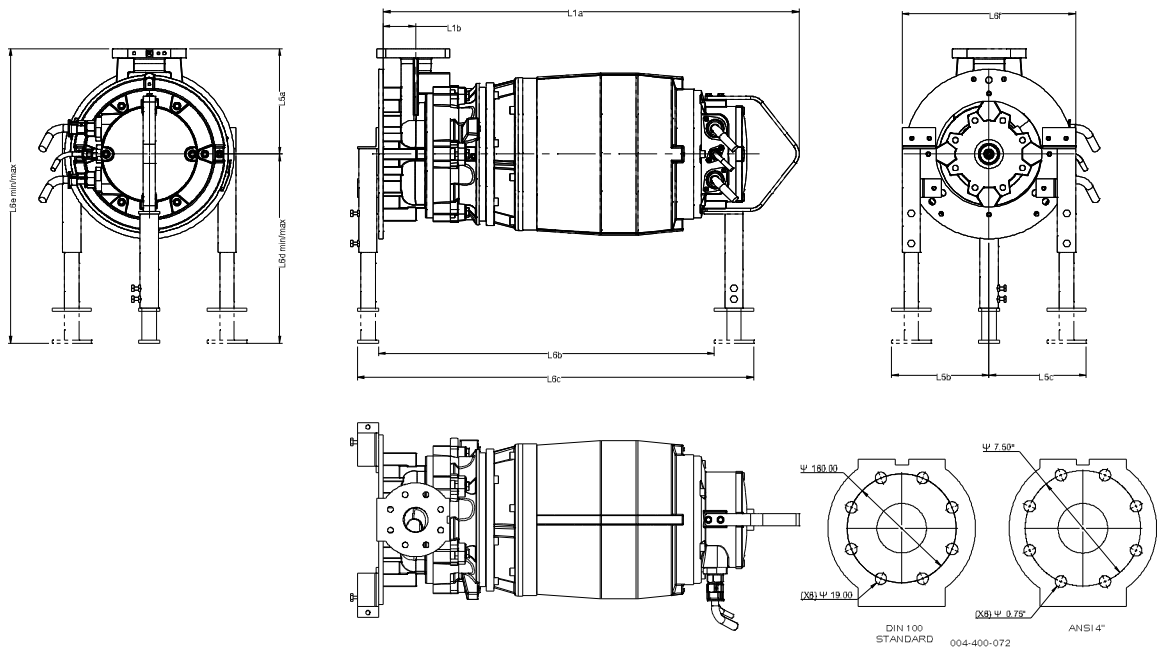
Dimensions	mm	Dimensions	mm
Name	Value	Name	Value
L1	615	LD2	654
L1a	1375		
L2	855,5		
L2a max	962,5		
L2a mim	642,5		
L3	534		
L5	530		
L5a	348,5		
L5b	261		
L5c	270		
L5d	305		
LD1	560		

Outlet flange - Standard : DN100 / PN10  
- Option : 4" ANSI class 125

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

Weight of Pump with cooling jacket = 790 kg  
Weight of Adjustable Legs = 35 kg

**PX4- 80.0-2 VORTEX 1 With motor M4.2C-110 IE2**



Dimensions	mm	Dimensions	mm	
Name	Value	Name	Value	Outlet flange - Standard : DN100 / PN10 - Option : 4" ANSI class 125  Suction flange - Standard : DN150 / PN10 - Option : 6" ANSI class 125  Weight of Pump with cooling jacket = 790 kg Weight of Adjustable Legs = 33 kg
L1a	1375	L6f	574	
L1b	108			
L5a	348,5			
L5b	322			
L5c	322			
L5e	0			
L6b	965			
L6c	1165			
L6d max	626			
L6d min	519			
L6e max	975			
L6e min	868			