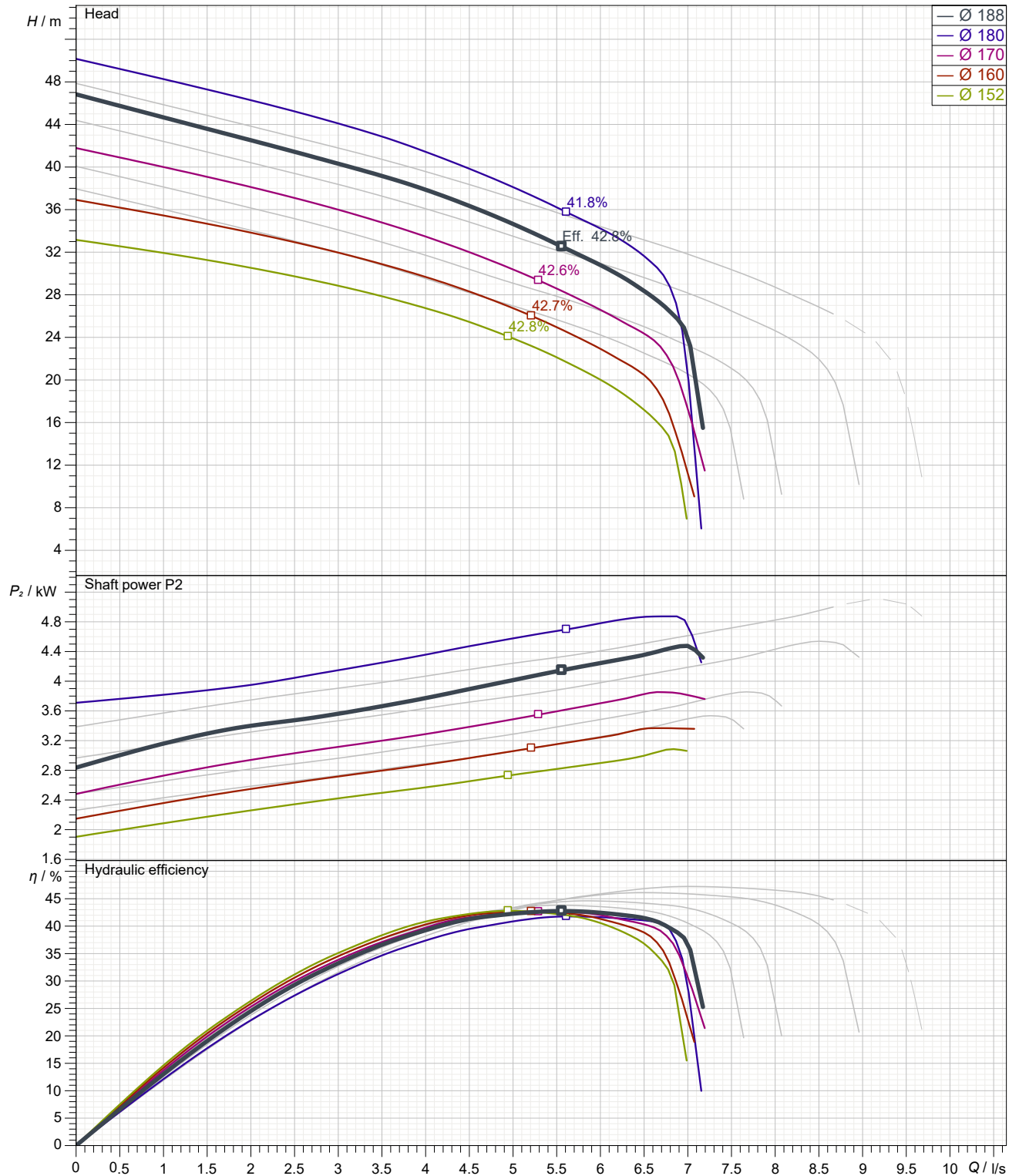


Power data referred to: Water; 20°C; 998.3kg/m³; 1.005mm²/s

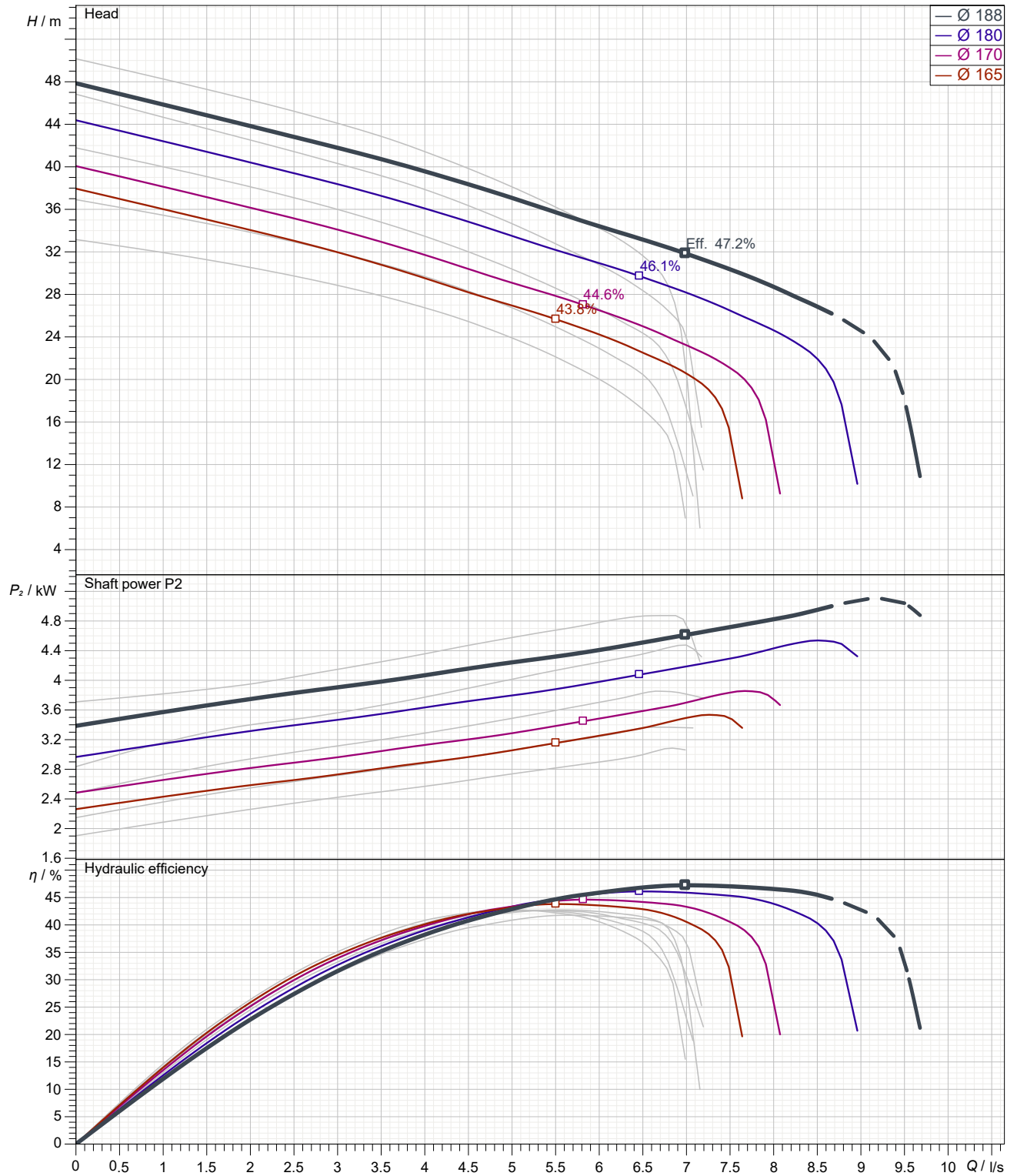
Tolerances acc. ISO 9906 Grade 2B



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

Power data referred to: Water; 20°C; 998.3kg/m³; 1.005mm²/s

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

Submersible, centrifugal, non-clogging sewage pump PXGRIND 1 capable of handling raw,unscreened sewage. The PXGRIND pumps are equipped with a grinder system, grinding destructible solids into small pieces before passing the pump ,so that they can be led away through pipes of a relatively small diameter.

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

- Multi channel impeller made in ductile iron GGG50
- Cutting system made in stainless steel with hardness 55 HRC minimum .
- Wear plate 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 316 for easy removal of the motor together with impeller from the volute.

Submersible motor type M1.1A- 5,0 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 standard IE1 or higher efficiency class (IE2 or IE3 as option) have Class F insulation (rated for 155 degrees Celsius) as standard (Class H as option)

-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

PXGRIND 1 (Multi channel impeller)+5 kW

-Motor housing, volute :cast iron GG -25

-Impeller : ductile iron GGG50

-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

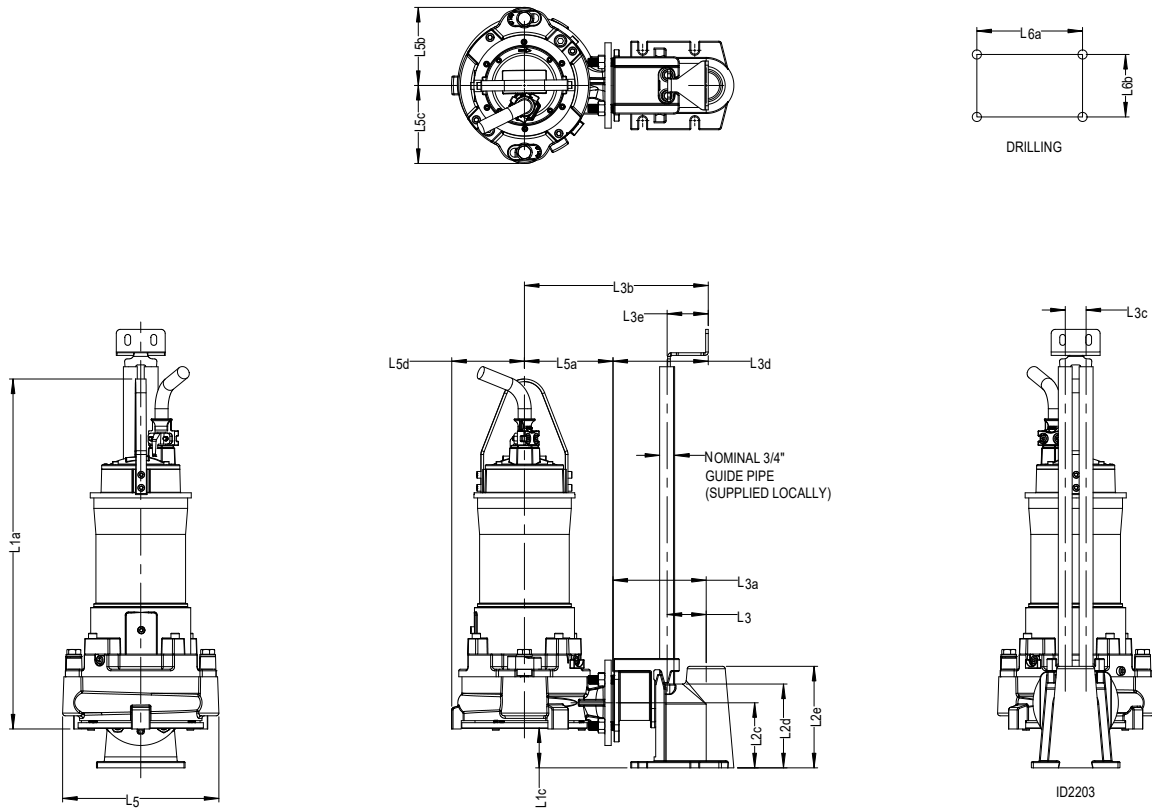
Wet pit installation accessories set (on request)

-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)

PXGRIND 1 With motor M1.1A-5,0



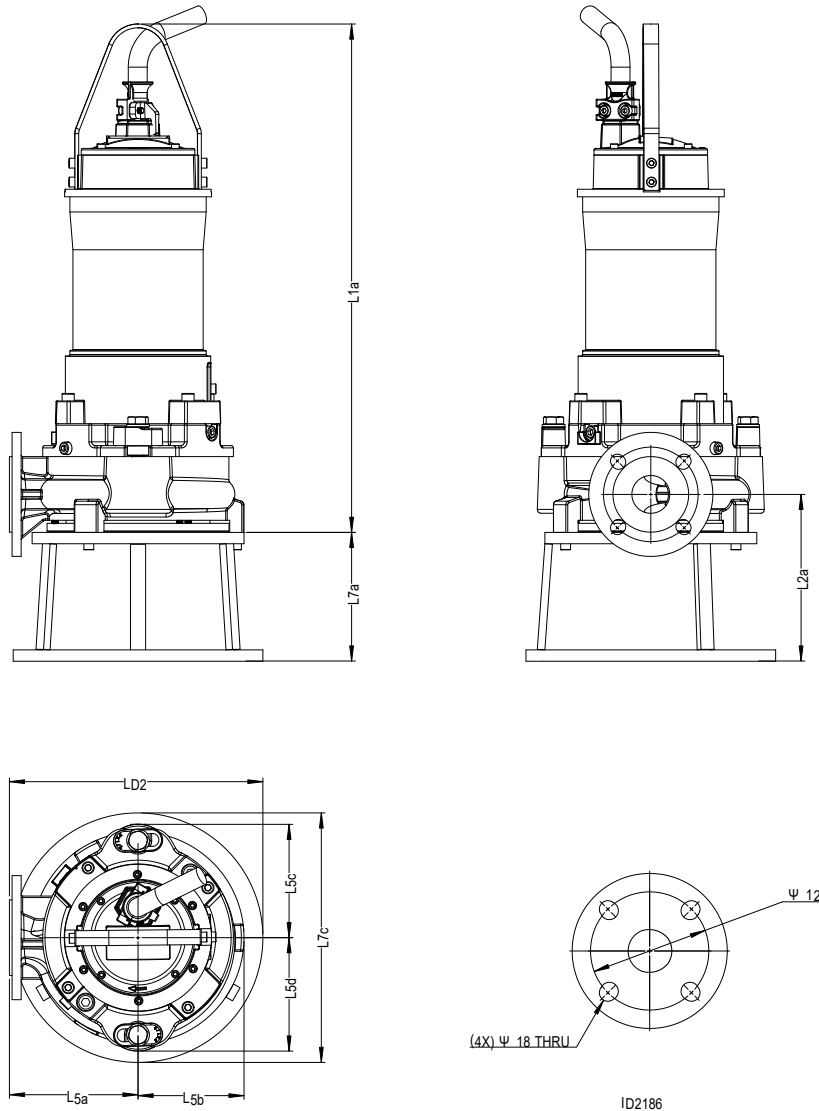
Dimensions mm		Dimensions mm	
Name	Value	Name	Value
L1a	672	L5c	150
L1c	76	L5d	140
L2c	125	L6a	100
L2d	161	L6b	135
L2e	195		
L3	75		
L3a	179		
L3b	353		
L3c	40		
L3d	183		
L3e	79		
L5	300		
L5a	170		

For Discharge connection bracket
 Outlet flange - Standard : G2"
 - Option : DN80 / PN10 Flange
 - Option : 3" ANSI class 125
 - Option : DN100 / PN10 Flange
 - Option : 4" ANSI class 125

For pump
 Outlet flange - Standard : DN50
 - Option : 2" ANSI class 125

Total Weight of Pump = 86 kg
 (without cooling jacket : - 14.2 kg)
 Weight of Adapter = 4.9 kg
 Weight of Discharge connection bracket (DCB) 2" = 8.5 kg
 Weight of Discharge connection bracket (DCB) 80 = 45 kg
 Weight of Discharge connection bracket (DCB) 100 = 47 kg

PXGRIND 1 With motor M1.1A-5,0



Dimensions		Dimensions	
Name	mm	Name	mm
L1	672		
L2a	220		
L5a	170		
L5b	140		
L5c	150		
L5d	150		
L7a	170		
L7c	330		
LD2	335		

Outlet - Standard : DN 50 (2")

Weight of Pump with cooling jacket = 86 kg
(without cooling jacket : - 14.2 kg)
Weight of Base for Transportable = 3.5 kg