

PHZ-100



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NOMINAL OPERATION PARAMETERS AT PURE WATER PUMPING (for the maximum rotation speed and the largest rotor)

| | | | |
|---------------------------------|-------|-------|-------------------|
| Capacity | Q_n | 125 | m ³ /h |
| Head | H | 40 | m |
| Rotational speed | n | 1600* | rpm |
| Impeller diameter | D_z | 332* | mm |
| Shaft power | P_n | 21 | kW |
| Weight | m | 359 | kg |
| Max. permissible size of solids | | 14 | mm |

*Pump construction enables decreasing the operational parameters by reducing the rotation speed and/or reducing the rotor's diameter, adapting the pump to the system without choking the pump.

TYPICAL APPLICATIONS

- pumping mixtures of water and solids, with large grains and highly abrasive properties,
 - pumping mixtures of water and quartz sand, ores, coal, slag, ash,
 - mining – PHZ pumps intended to replace hydrotransport drainage pumps used so far,
 - water supply systems,
 - pressure boosting,
 - technological processes,
 - industrial systems,
 - filtration systems.
-

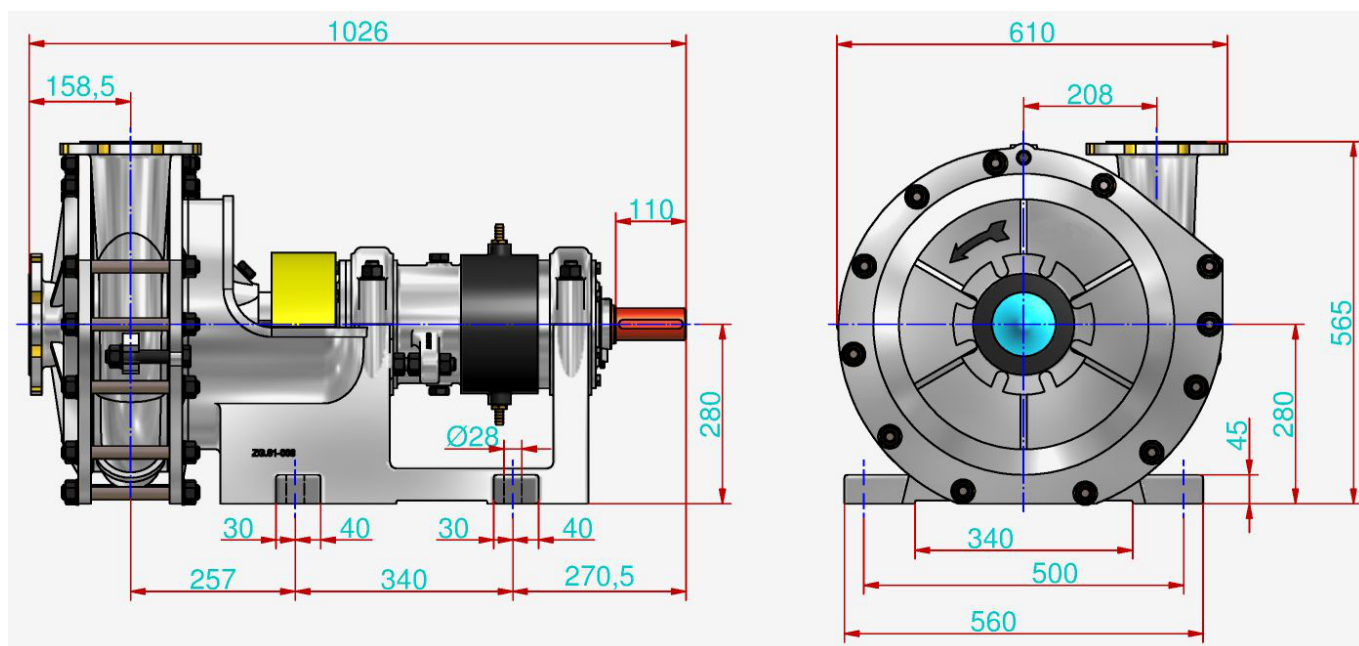
KEY ADVANTAGES

- long life ensured by the use of state-of-the-art corrosion and erosion resistant materials,
- possibility of operation with a frequency converter,
- possibility of serial operation,
- the pumped mixture density can reach $\rho_{\max} = 1700\text{kg/m}^3$ while pumping mixtures with a 50% content of solids in water,
- silent and smooth operation,
- connection dimensions in compliance with hydrotransport pumps,
- inflow and suction operation,
- approved for operation in explosion-hazard zones – ATEX Ex I M2.

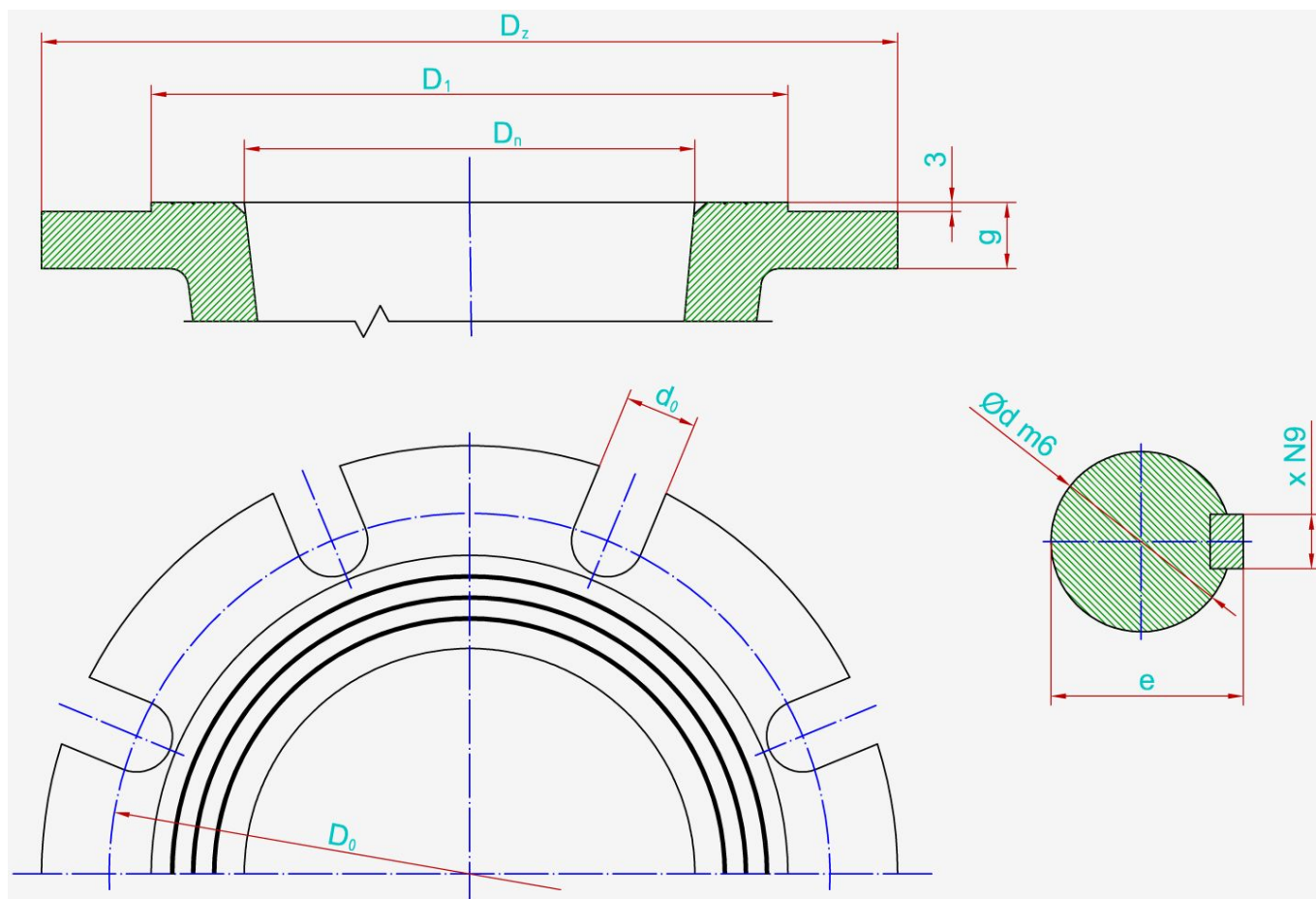
PUMP PERFORMANCE CURVE

IN PROGRESS

MAIN DIMENSIONS OF PUMP



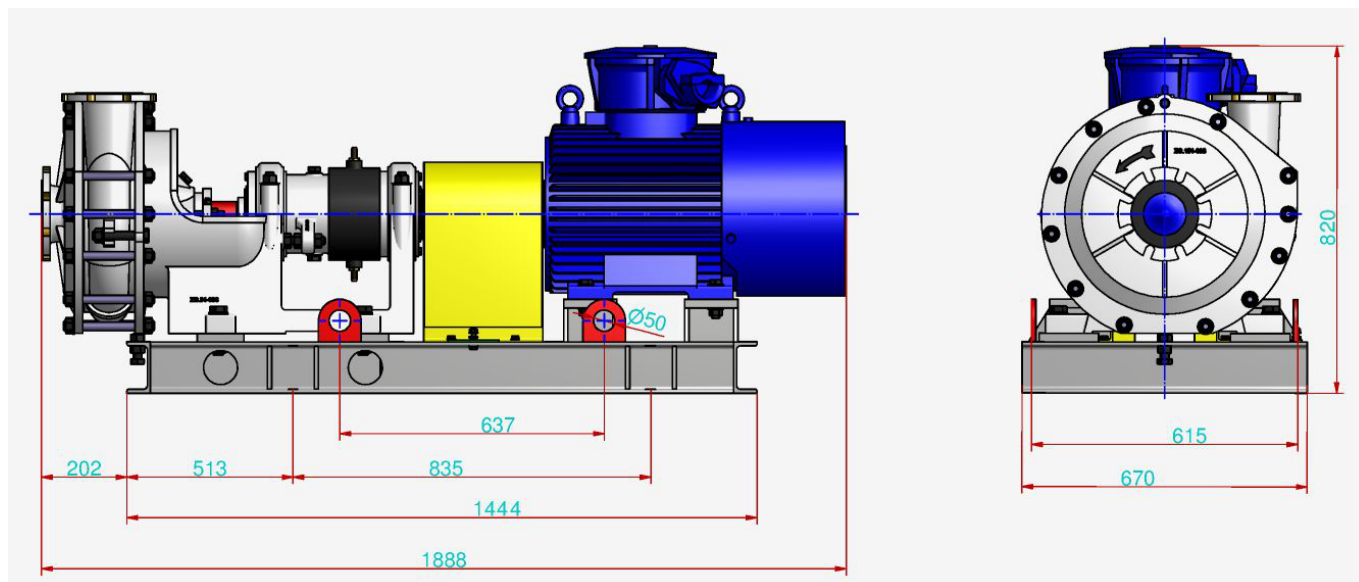
CONNECTION SIZES OF PUMP



| | P_n | D_n | i | D_z | d_0 | g | D_0 | D_1 | d | e | x |
|----------------------------|-------|-------|-----|-------|-------|-----|-------|-------|-----|------|-----|
| Suction connector | 16 | 100 | 8 | 220 | 19 | 20 | 180 | 158 | - | - | - |
| Discharge connector | - | - | - | - | - | - | - | - | 50 | 53,5 | 14 |
| Shaft / coupling | bar | mm | - | mm | mm | mm | mm | mm | mm | mm | mm |

The flanges are normally made in accordance with the standard PN-EN 1092-1 or PN-EN 1092-2.

MAIN DIMENSIONS OF PUMP UNIT



| | | |
|---------------|----------------|----|
| Motor type | Celma dSg200L4 | - |
| Coupling type | V130 | - |
| Weight | 844 | kg |

It is possible to produce pumps with parameters different than those presented in the tables and on the graphs per agreement with the manufacturer.