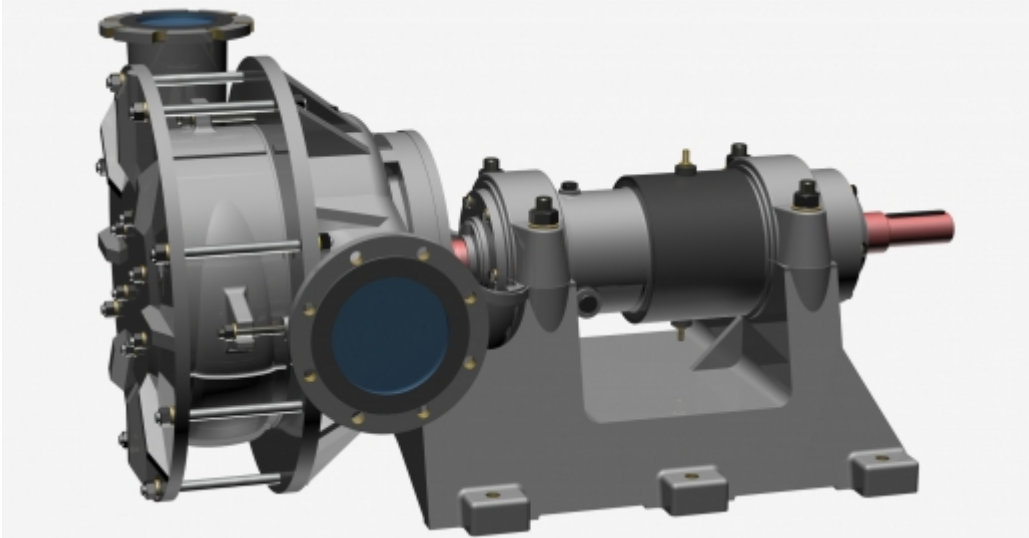


# WPCC-150



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**PUBLICATION - 2017-11-07**

# NOMINAL OPERATION PARAMETERS AT PURE WATER PUMPING

## (for the maximum rotation speed and the largest rotor)

Capacity	$Q_n$	300	$m^3/h$
Head	H	17	m
Rotational speed	n	850*	rpm
Impeller diameter	$D_z$	428*	mm
Shaft power	$P_n$	18,6	kW
Weight	m	989	kg
Max. permissible size of solids		40	mm
Smallest flow cross-section		68	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.

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## TYPICAL APPLICATIONS

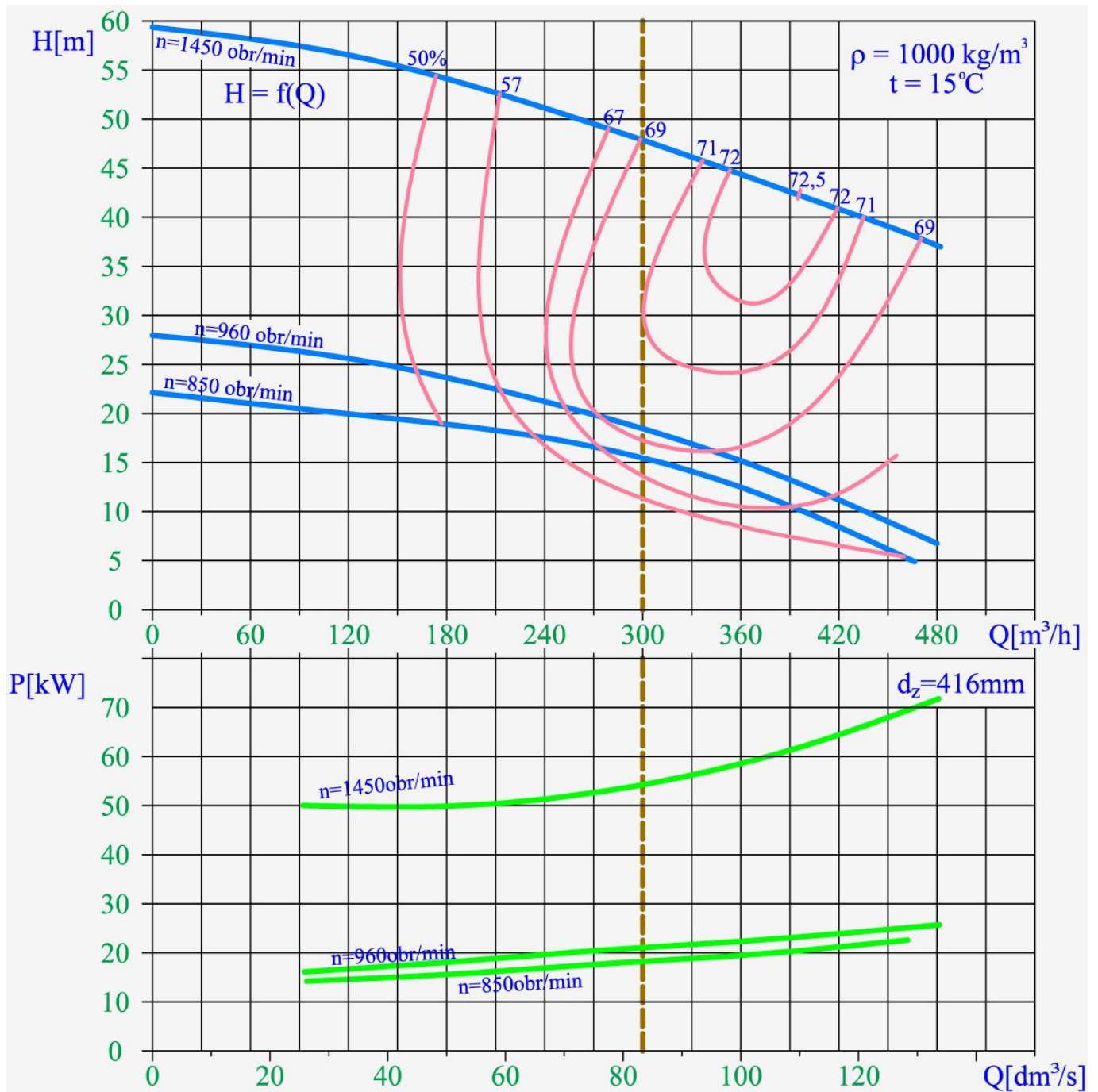
- pumping mixtures of water and solids, with large grains and highly abrasive properties,
  - pumping mixtures of water and quartz sand, ores, coal, slag, ash,
  - mining - WPCP pumps intended to replace heavy duty pumps used so far for,
  - technological processes,
  - industrial systems,
  - filtration systems.
- 

## KEY ADVANTAGES

- long life ensured by the use of state-of-the-art corrosion and erosion resistant materials,

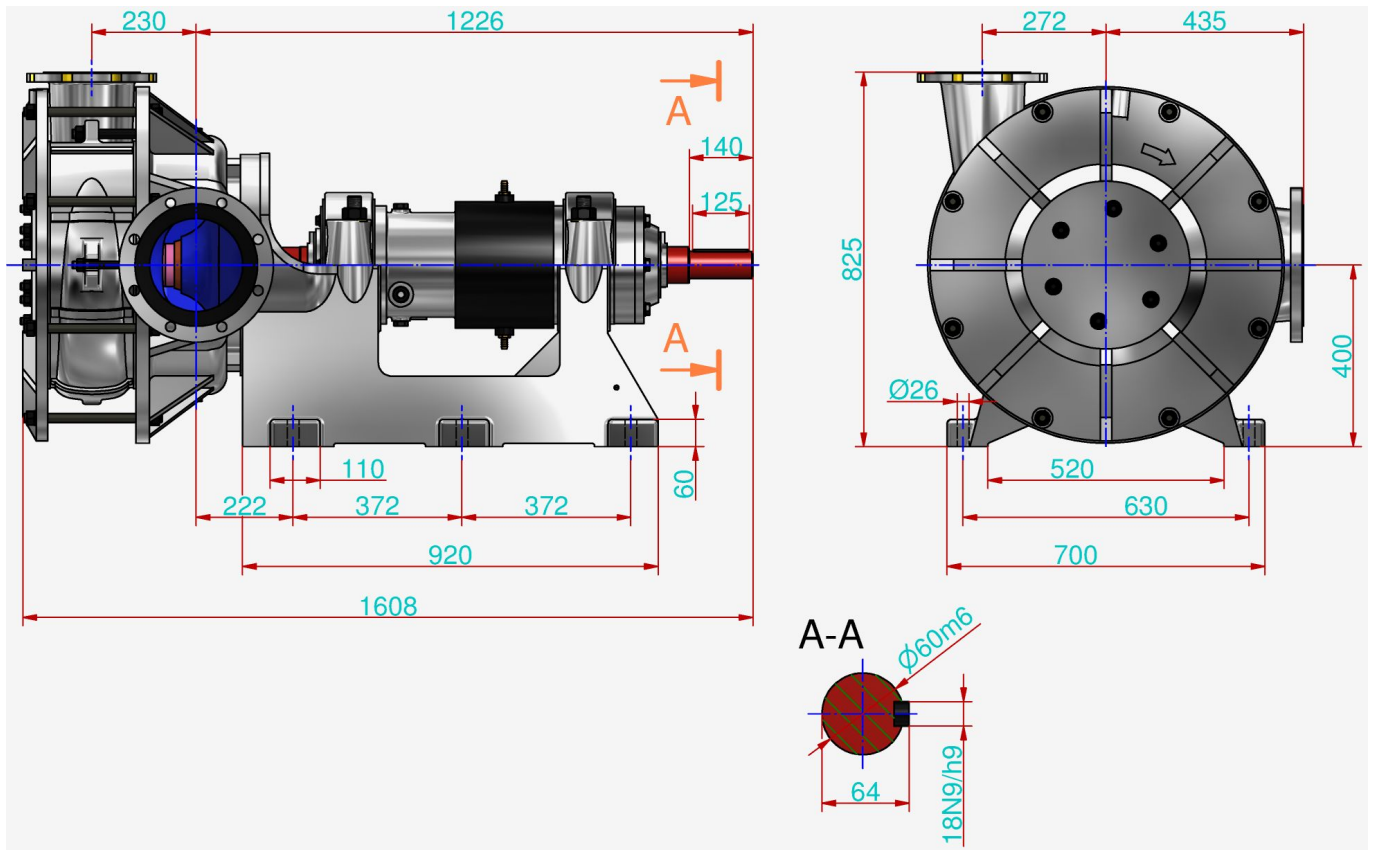
- possibility of operation with a frequency converter,
  - possibility of serial operation,
  - the pumped mixture density can reach  $\rho_{\max} = 2200\text{kg/m}^3$  while pumping mixtures with a 50% content of solids in water,
  - silent and smooth operation
  - connection dimensions in compliance with heavy duty pumps,
  - inflow and suction operation,
  - approved for operation in explosion-hazard zones - ATEX Ex I M2.
- 

## **PUMP PERFORMANCE CURVE**

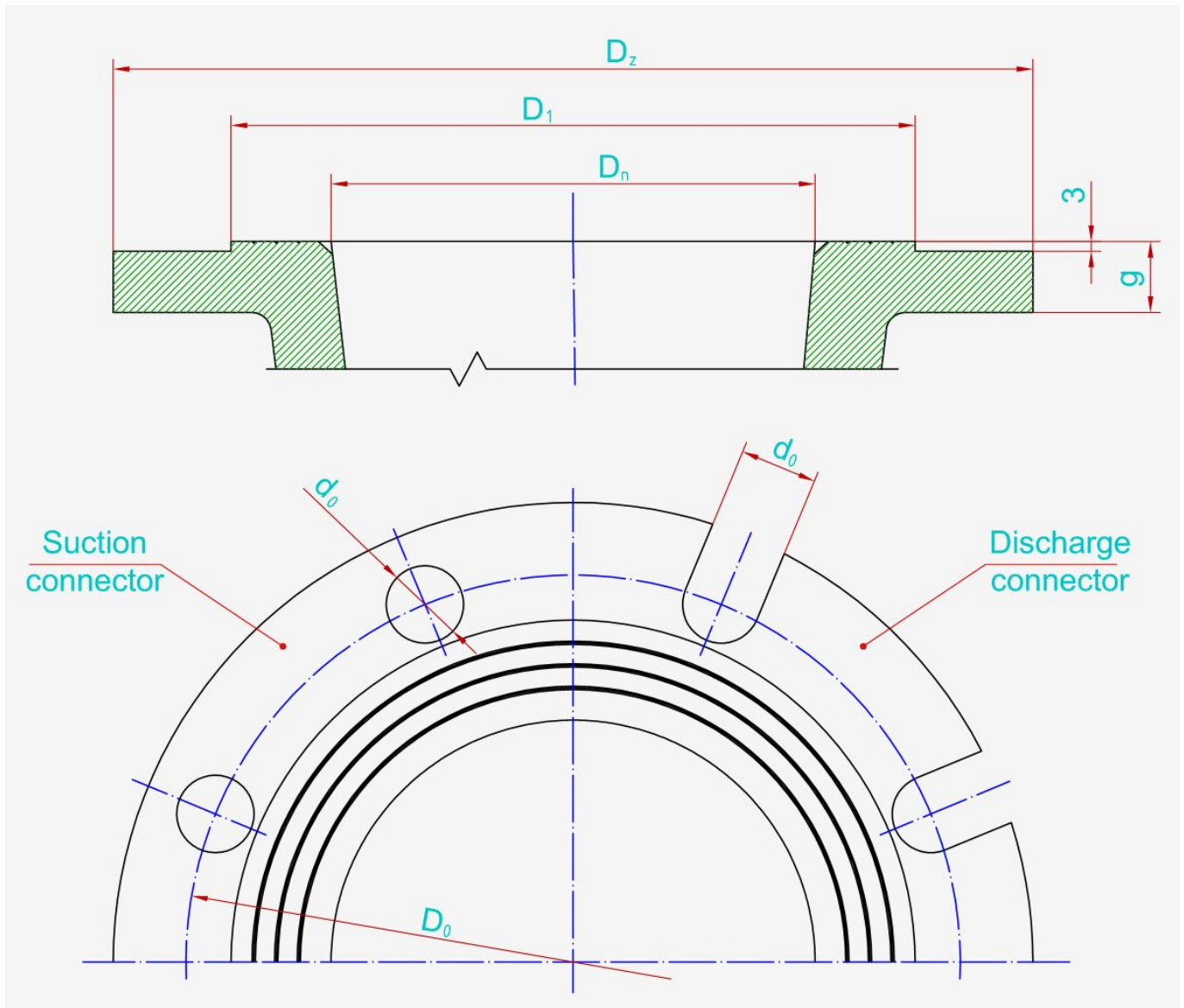


- $H = f(Q)$  - lift head acc. to rate flow,
- $P = f(Q)$  - power input acc. to rate flow,
- $\eta = f(Q)$  - efficiency acc. to rate of flow,
- $d_z$  - impeller diameter,
- $n$  - rotational speed.

# MAIN DIMENSIONS OF PUMP



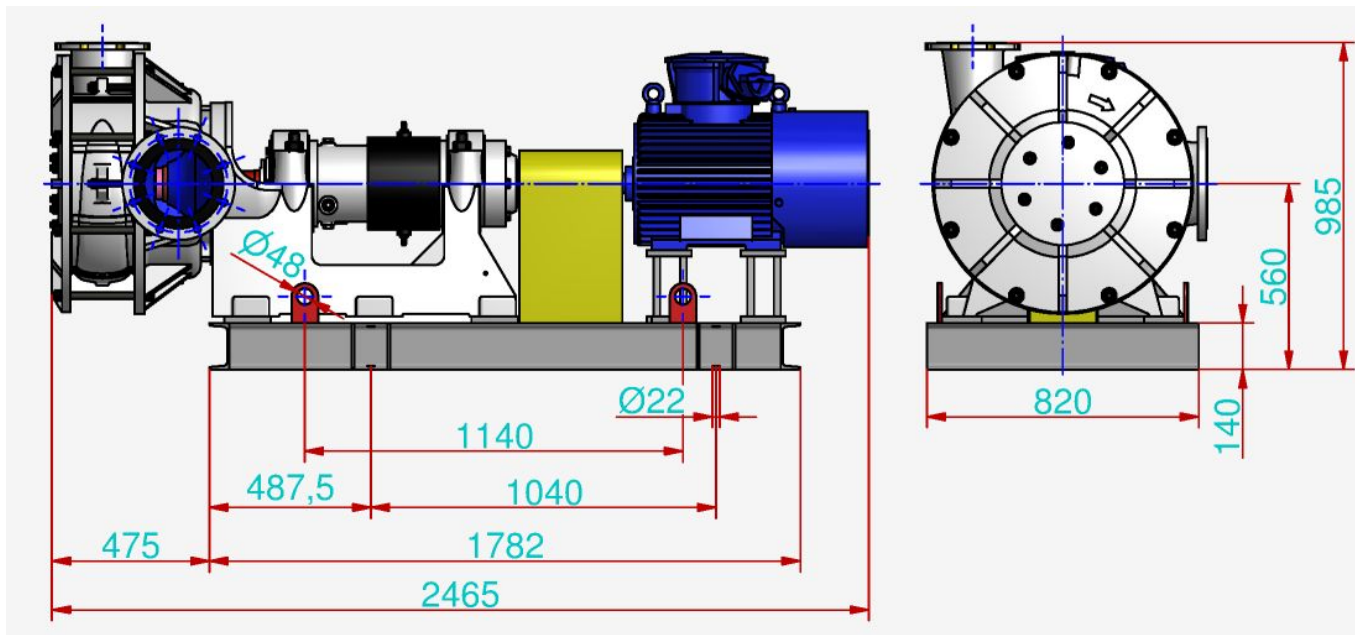
# CONNECTION SIZES OF PUMP



	$D_n$	$i$	$D_z$	$d_0$	$g$	$D_0$	$D_1$
<b>Suction connector</b>	200	8	340	22	26	295	266
<b>Discharge connector</b>	150	8	385	24	22	240	212
	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 dSg200L6B	-
Coupling type	V170	-
Weight	1550	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.**