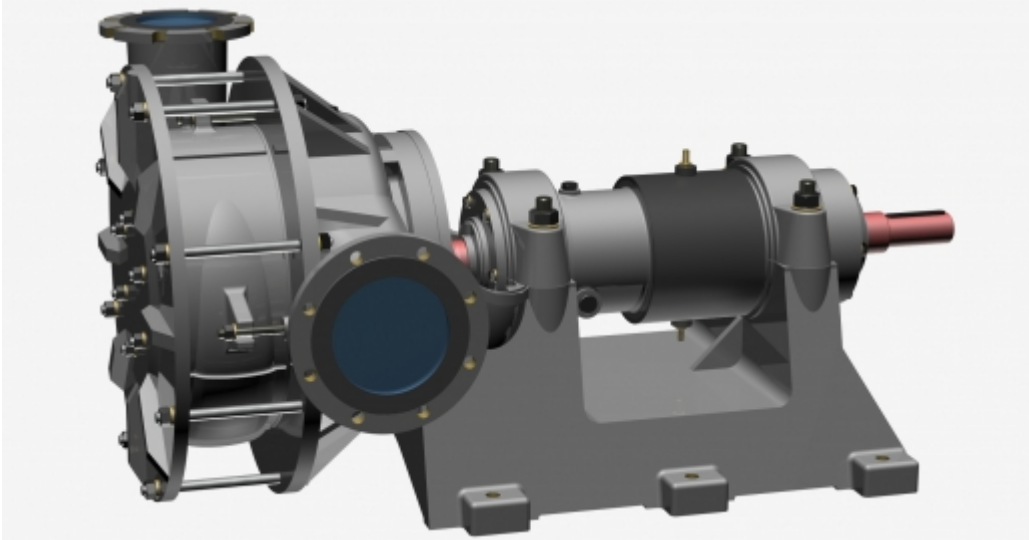


WPCC-150



DOWNLOAD



Catalog



2D



3D

SAVE TO PDF / PRINT

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.

TYPICAL APPLICATIONS

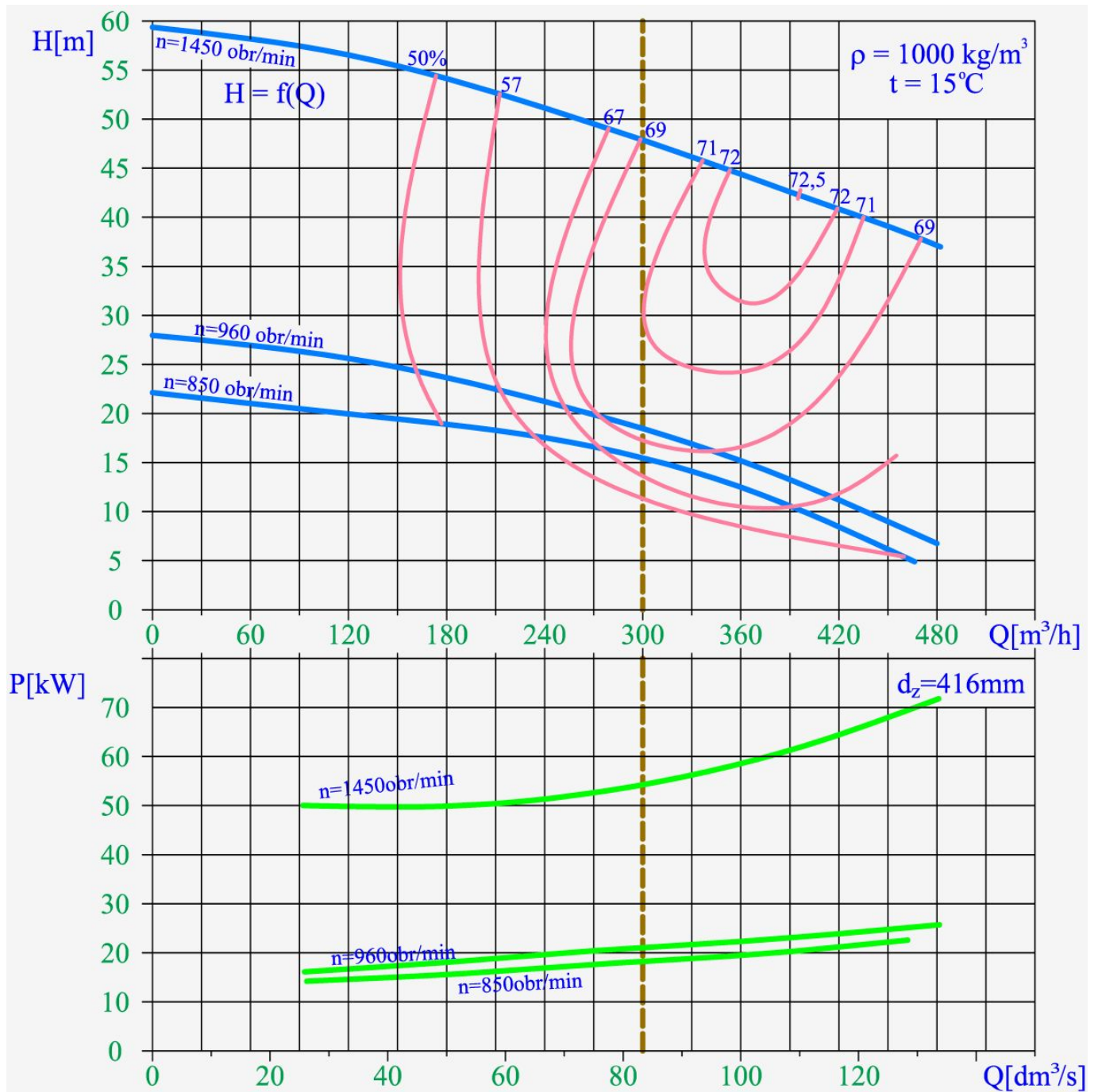
- pumping mixtures of water and solids, with large grains and highly abrasive properties,
 - pumping mixtures of water and quartz sand, ores, coal, slag, ash,
 - mining - WPCC pumps intended to replace heavy duty pumps used so far for,
 - technological processes,
 - industrial systems,
 - filtration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

KEY ADVANTAGES

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

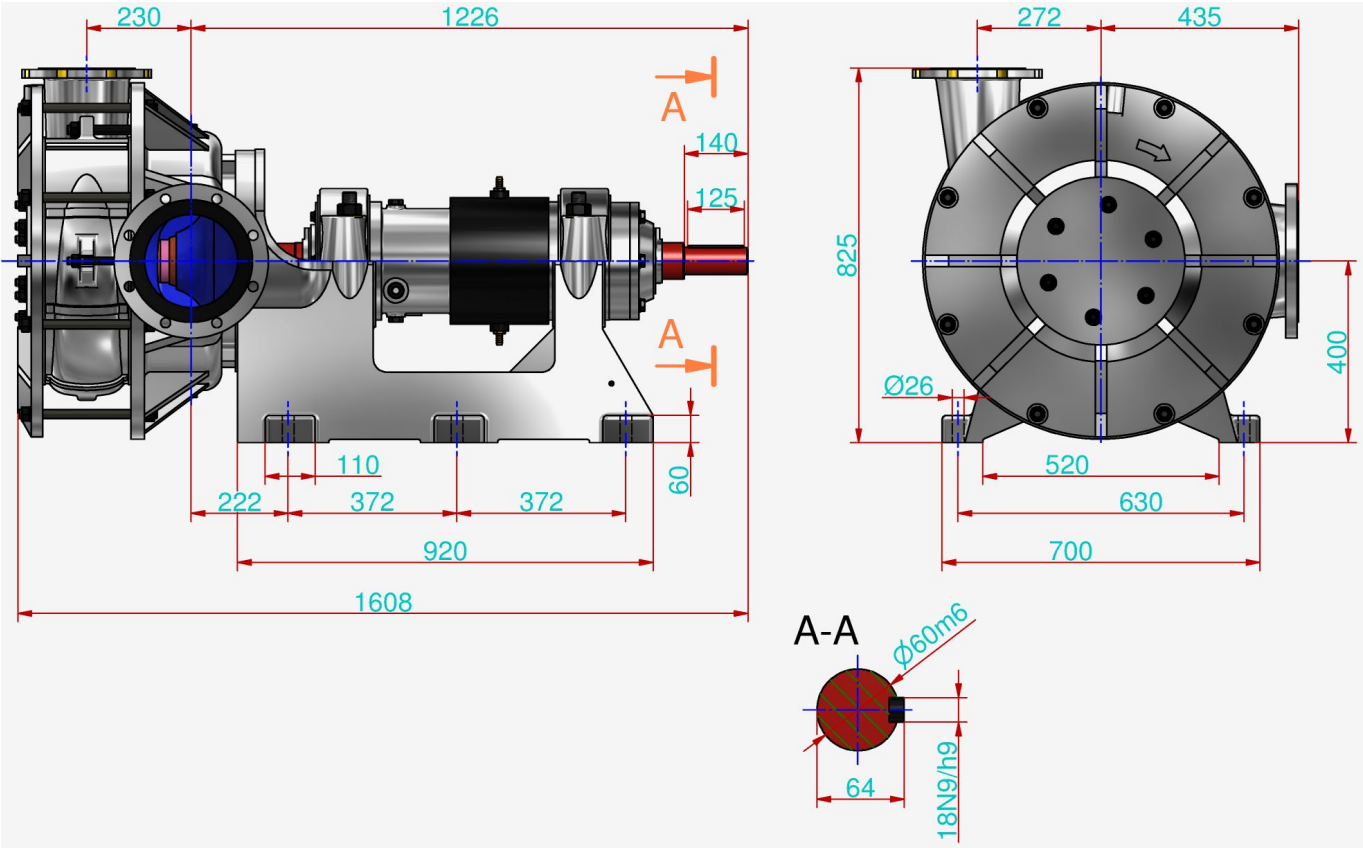
- possibility of operation with a frequency converter,
 - possibility of serial operation,
 - the pumped mixture density can reach $\rho_{\max} = 2200\text{kg/m}^3$ while pumping mixtures with a 50% content of solids in water,
 - silent and smooth operation
 - connection dimensions in compliance with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

PUMP PERFORMANCE CURVE

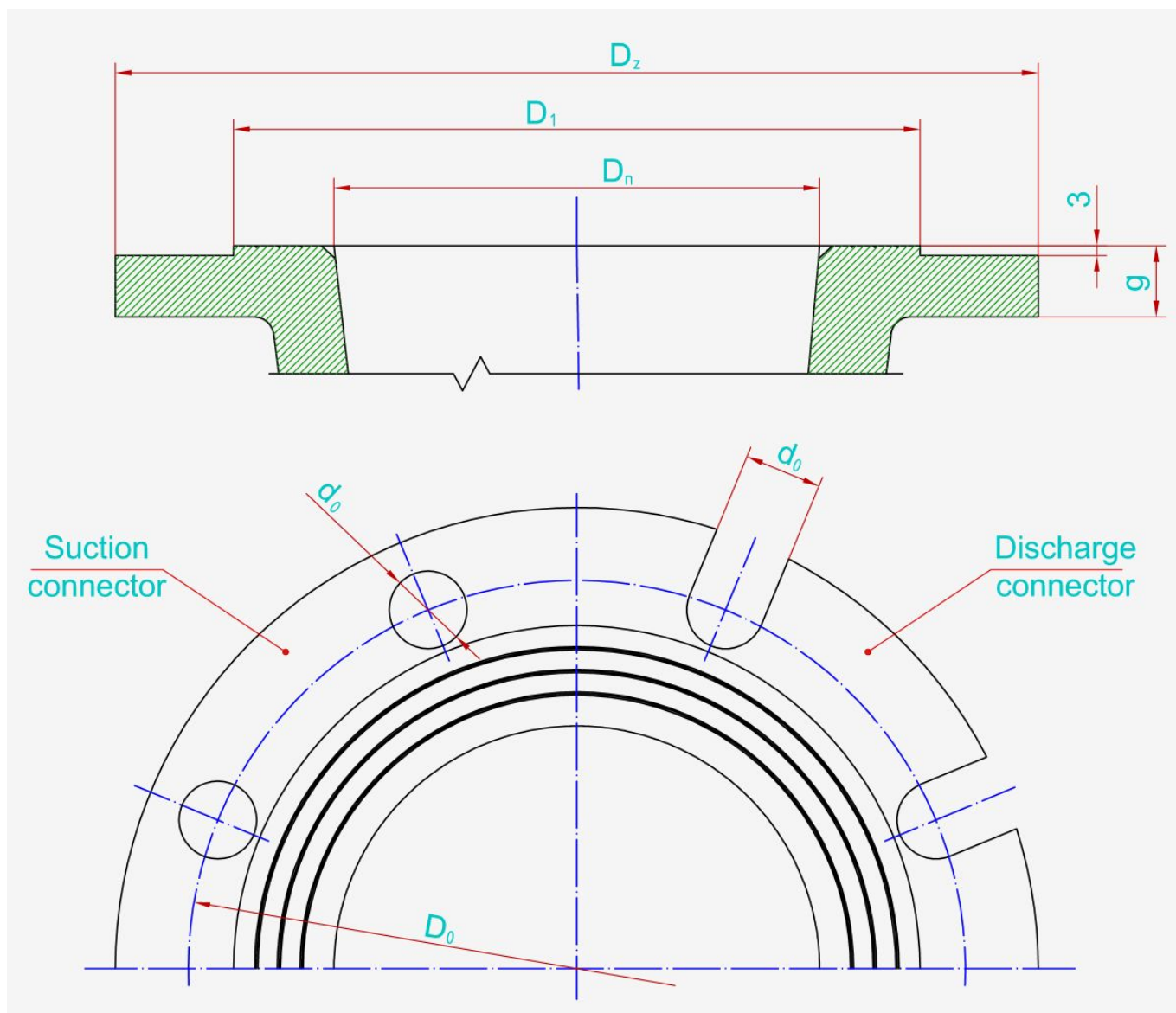


- $H = f(Q)$ - lift head acc. to rate flow,
- $P = f(Q)$ - power input acc. to rate flow,
- $\eta = f(Q)$ - efficiency acc. to rate of flow,
- d_z - impeller diameter,
- n - rotational speed.

MAIN DIMENSIONS OF PUMP



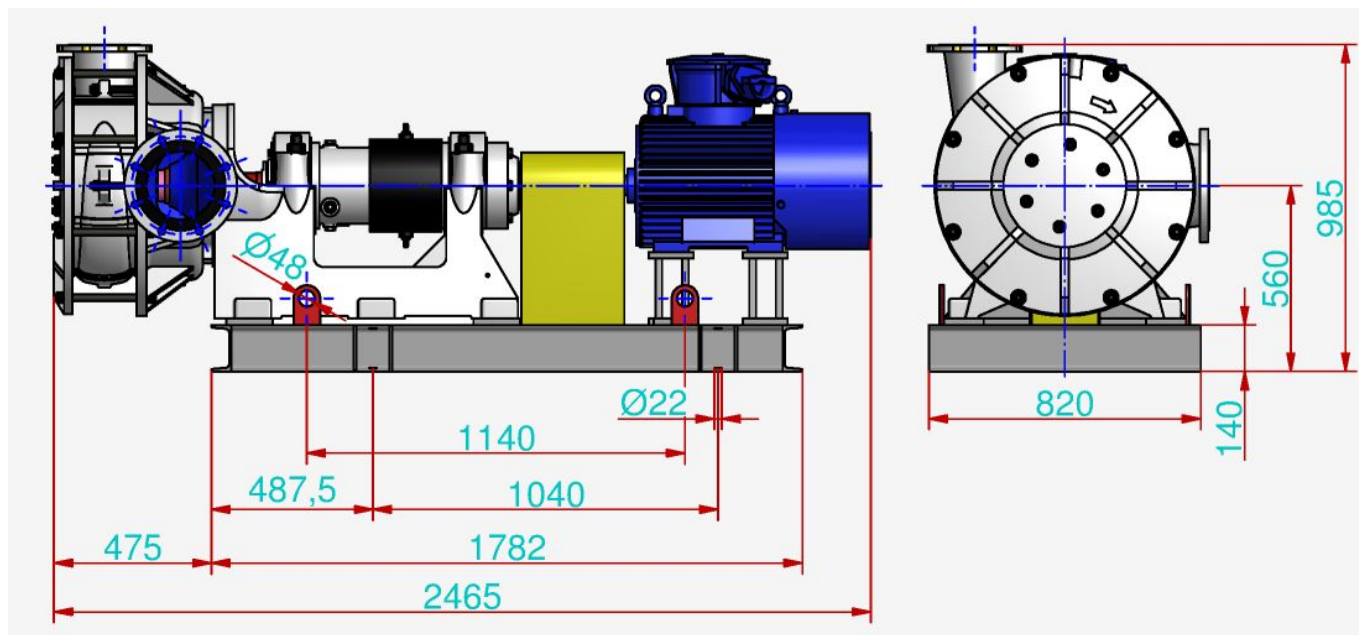
CONNECTION SIZES OF PUMP



	D_n	i	D_z	d_0	g	D_0	D_1
Suction connector	200	8	340	22	26	295	266
Discharge connector	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.