WPJ-100





Catalog



2D



3D

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

Capacity	Qn	130	m³/h
Head	Н	42	m
Rotational speed	n	1470*	rpm
Impeller diameter	Dz	370*	mm
Shaft power	Pn	20,7	kW
Weight	m	420	kg
Max. permissible size of solids		14	mm
Smallest flow cross-section		20	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

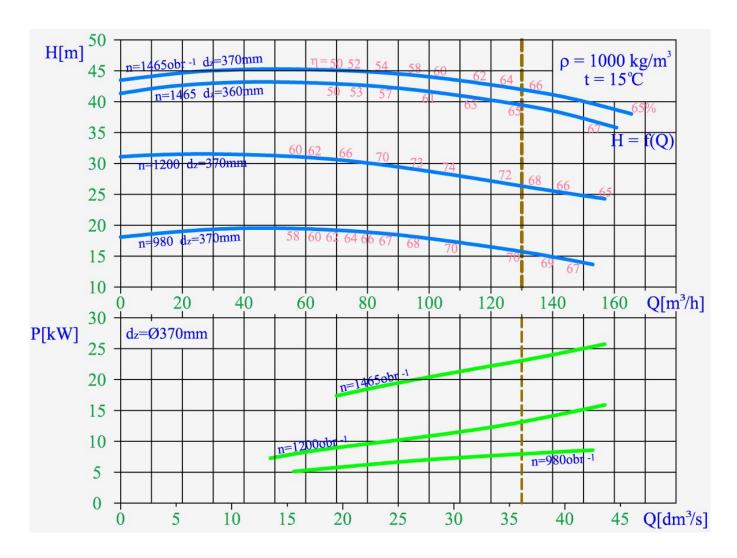
- pumping mixtures of water and solids, with large grains and higly abrasive properties,
- pumping mixtures od water and quartz sand, ores, coal, slag, ash,
- mining WPJ pumps intended to replace hydrotransport drainage pumps used so far,
- water supply systems,
- pressure boosting,
- technological processes,
- 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,

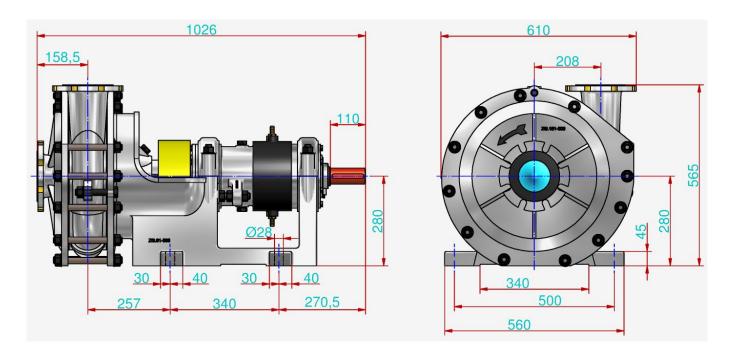
- the pumped mixture density can reach $\rho_{max} = 1700 kg/m^3$ while pumping mixtures with a 50% content of solids in water,
- silent and smooth operation,
- connection dimensions in compliance with hydrotransport pumps,
- inflow and suction operation,
- approved for operation in explosion-hazard zones ATEX Ex I M2.

PUMP PERFORMANCE CURVE

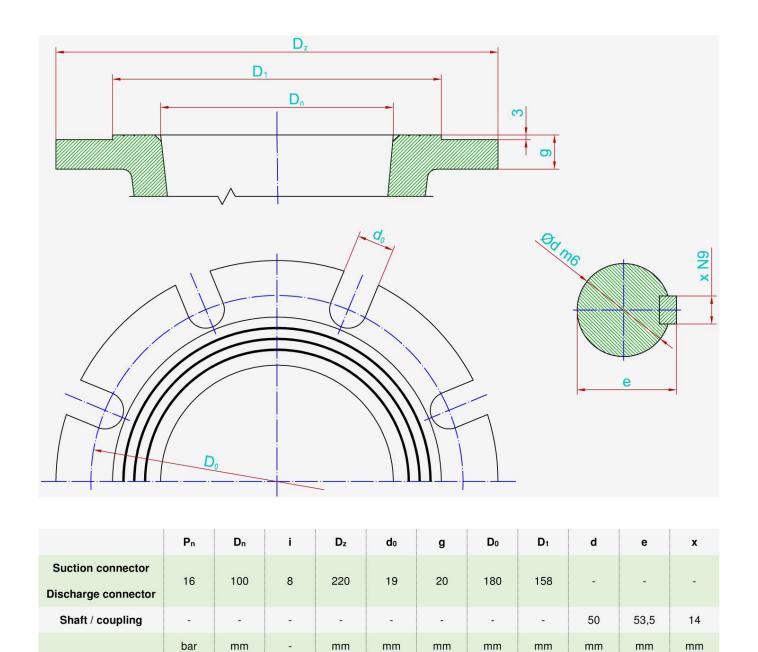


- H = f(Q) lift head acc. to rate flow,
- P = f(Q) power input acc. to rate flow,
- $\eta = f(Q)$ efficiency acc. to rate of flow,
- d_z impeller diameter,
- n rotational speed.

MAIN DIMENSIONS OF PUMP

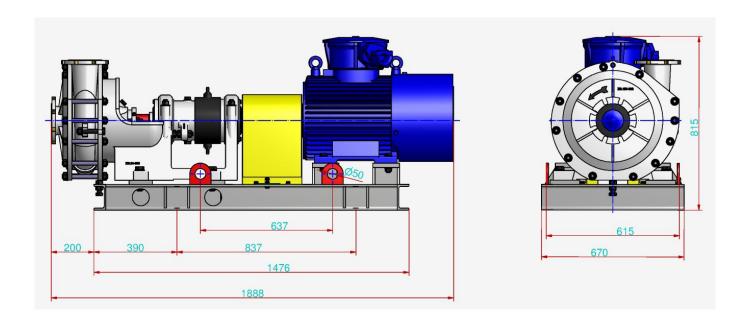


CONNECTION SIZES OF PUMP



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	852	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.