WPJ-250

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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	Qn	1000	m³/h
Head	Н	100	m
Rotational speed	n	1485*	rpm
Impeller diameter	Dz	580*	mm
Shaft power	Pn	371	kW
Weight	m	1800	kg
Max. permissible size of solids		56	mm
Smallest flow cross-section		80	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 ρ_{max} = 1700kg/m³ 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



	Pn	Dn	i	Dz	d٥	g	Do	D1	d	е	x
Suction connector	16	250	12	405	28	26	355	320	-	-	-
Discharge connector A	16	250	12	405	28	26	355	320	-	-	-
Discharge connector B	25	250	12	425	28	32	370	335	-	-	-
Shaft / coupling	-	-	-	-	-	-	-	-	90	95	25
	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	Damel 2SG2 400M-4f	-
Coupling type	V365	-
Weight	4578	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.