



water solutions

Data sheet

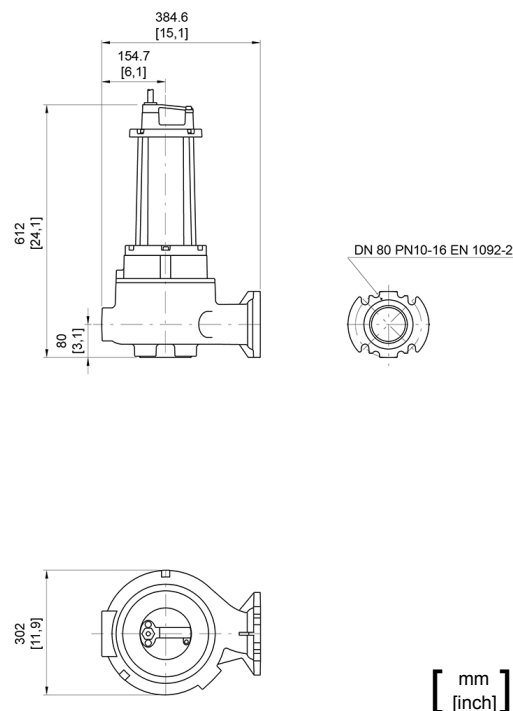
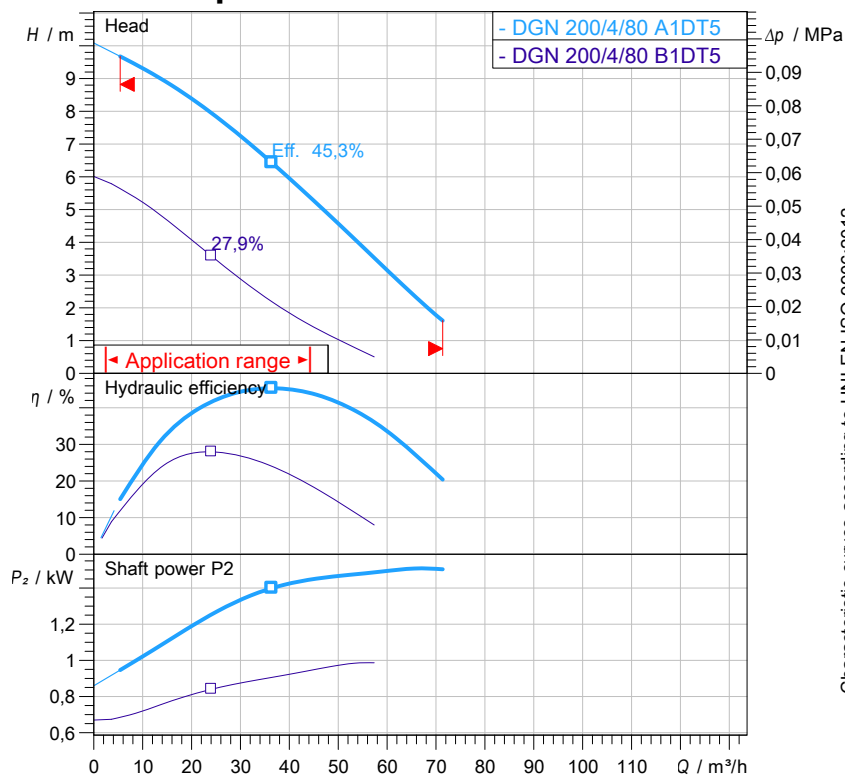
DGN 200/4/80 A1DT5

N

series

Technical specification

3~ 50 Hz



Pump

Series	N series
Pump name	DGN 200/4/80 A1DT5
Configuration	NGTAB51040S00NN
Standard	EN 809:2009
ATEX mark	-

Motor data

Rated voltage	400 V
Frequency	50 Hz
Motor phases	3~
Number of poles	4
Rated power P2	1,50 kW
Incoming power P1	2,00 kW
Rated current	4,1 A
rpm	1405 1/min
cos φ	0,7
Rated torque	10,2 Nm
Start	Direct starting
Degree of protection	IP 68
Insulation class	H

Hydraulic

Type	DG (Set-back Vortex)
Free passage	80 mm
Impeller type	Vortex impeller
Max. hydraulic efficiency	45,3 %
Suction	DN 80 EN 1092-2
Discharge	DN 80 EN 1092-2
Curve tolerance	UNI EN ISO 9906:2012

Operating limits (standard pumps)

Max. ambient temperature	40 °C
Max. density treated liquid	1100 kg/m³
Max. immersion depth	30 m
pH treated liquid	6 ÷ 14
Max. start per hour (equally distributed)	30
Wet/dry use	WET
Max. acoustic pressure level	70 dB
Operating mode	S1 - Continuous use

Construction materials

Case	Cast iron EN-GJL 250
Shaft	Stainless steel - AISI 431
Hydraulic	Cast iron - EN-GJL 250
Impeller	Cast iron - EN-GJL 250
Painting/Coating	Bi-epoxy 150 µm
Screws	Stainless steel - Class A2-70
Gaskets	NBR
Cooling jacket (if present)	Carbon steel

Construction features

Cooling system	No cooling jacket
Main cable	4G1.5+3x1
Control cable	-
Cable length	10 mt
Mechanical seals	2 in silicon carbide (2SiC)
Additional drilling	-
Weight*	64 kg
Electrical variant	Thermal protection

* cable's weight not included

Rev. 0 - 16-12-2014

All data shown are not binding. Zenit reserves the right to change data and dimensions without notice.

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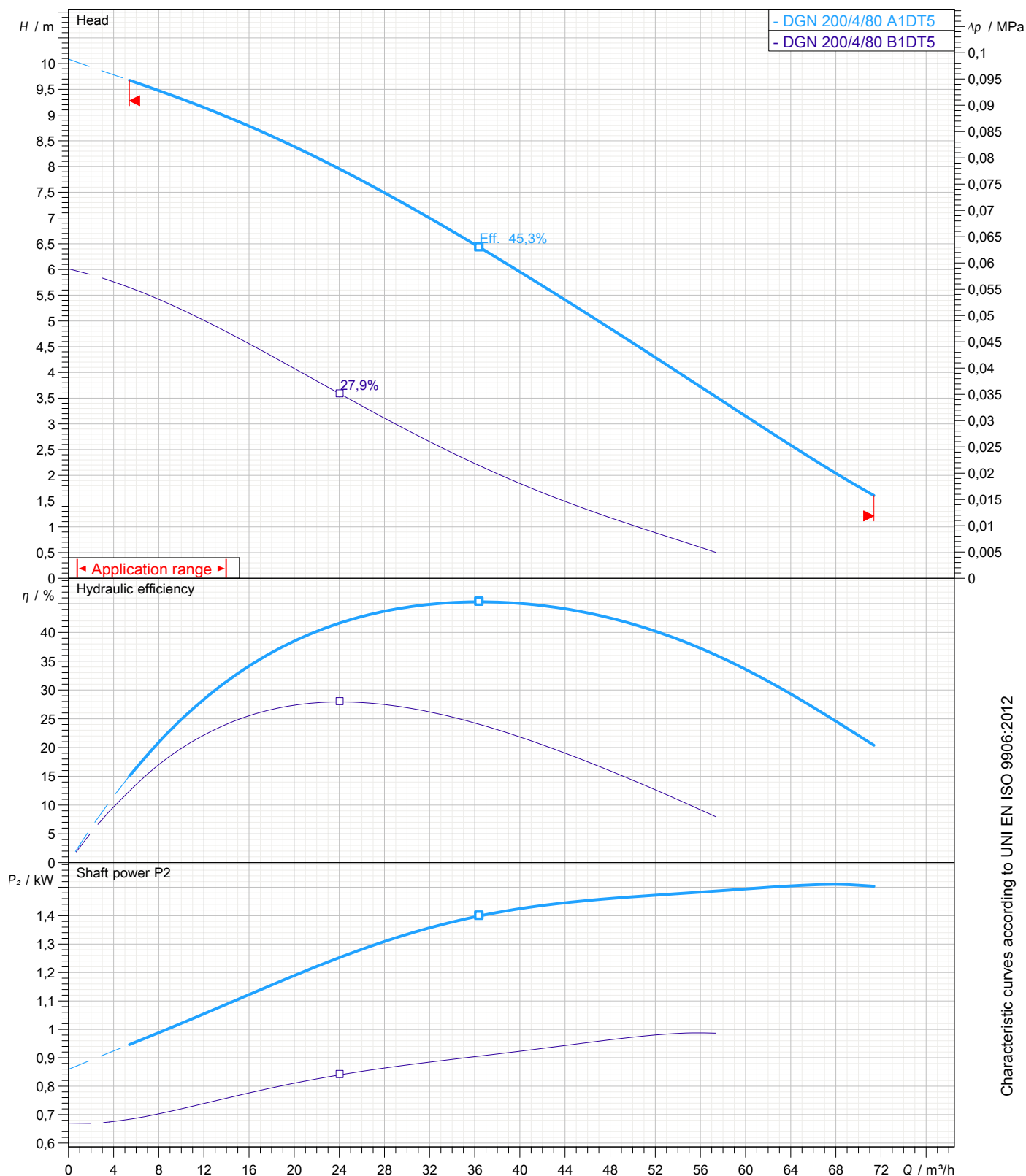
N

series

Pump performance curves

3~ 50 Hz

Hydraulic type DG (Set-back Vortex)		Impeller type Vortex impeller	Free passage 80 mm	Discharge DN 80	Suction DN 80
DUTY POINT					
Flow	Head	Shaft power P2	Hydraulic efficiency	Density 998,3 kg/m ³	Viscosity 1,005 mm ² /s



Characteristic curves according to UNI EN ISO 9906:2012

Dimensional drawing

3~ 50 Hz

Installation type Installation with bottom coupling device - Vertical outlet

WET/DRY use: WET

Discharge: DN 80 EN 1092-2

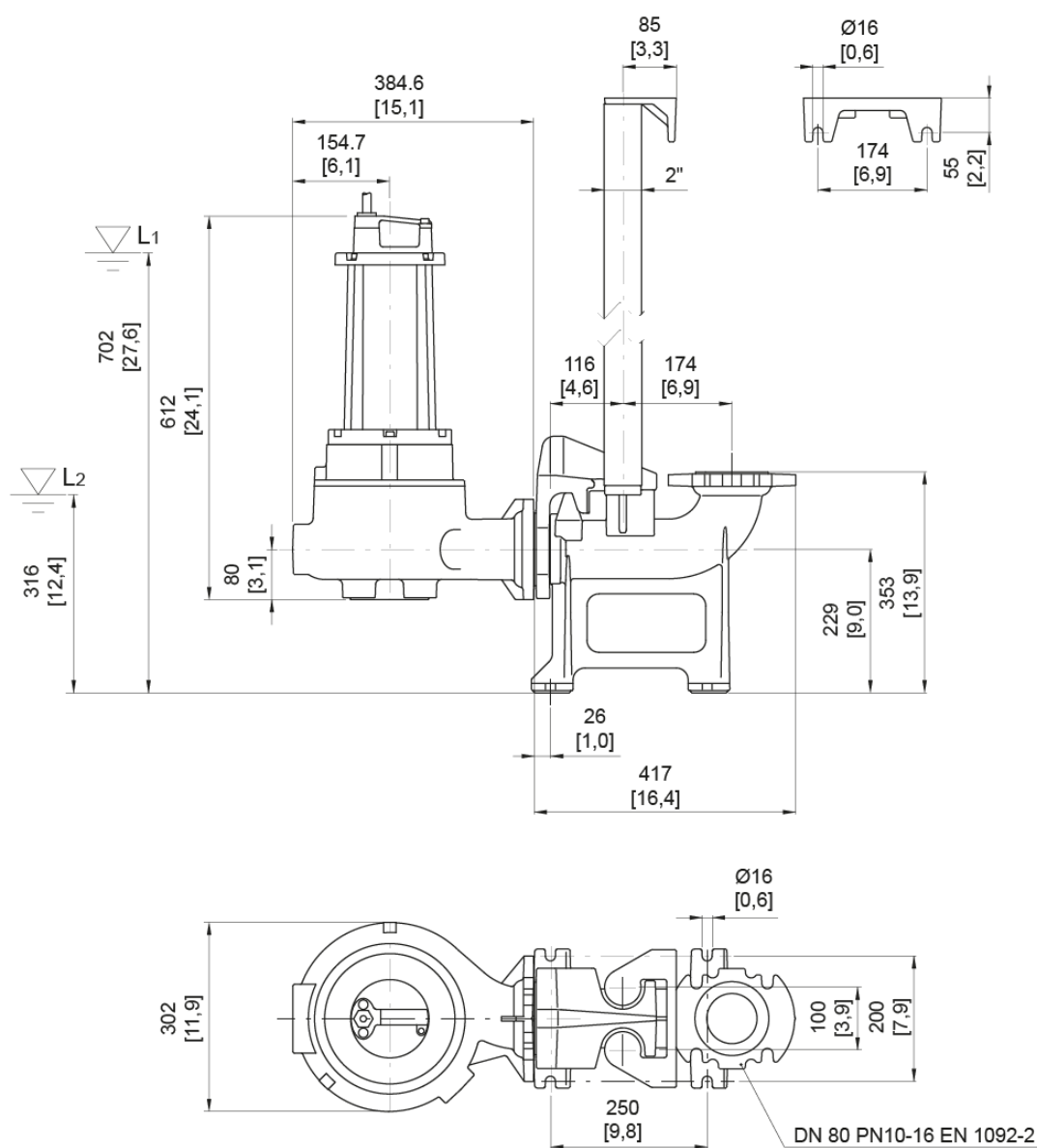
Pressure rating (suction/discharge): PN 6/PN 10

Accessory *: DAC 80/80V+KAF 116-2" EN (P)

Suction: DN 80 EN 1092-2

Accessory code * : 9001.032

* Accessory must be ordered separately



L1: Minimum operating level for continuous use

L2: Minimum operating level for discontinuous use (only "WET" version)

[mm
[inch]]