

DATA SHEET

Company		Date	08/02/2023
Project		Item	
		Ref No.	

SNSP 250-500-450

Single stage, radially split, volute casing type conforming to EN 733

Operating Point Data

Capacity	:	Power at Duty Point	:
Head	:	Frequency	: 50 Hz
Efficiency (%)	:	Voltage	: 400 V
Impeller Diameter	: 530 mm	Motor Power	: 450.00 kW
NPSHr	:	Nominal Speed	: 1488 rpm
Shut Off Head	: 96.0 m		

Liquid Data

Liquid	: Water	Density	: 998.30 kg/m ³
Temperature	: 20 °C	Viscosity	: 1.005 cSt

Pump Data

Design	: Single Stage, End Suction	Type of Coupling	: Standard
Installation	: Horizontal	Direction Of Rotation	: Clockwise from the drive end
Suction Flange	: EN 1092 PN 16-DN 300	Impeller Type	: Radial impeller
Discharge Flange	: EN 1092 PN 16-DN 250	Type of Bearing	: Closed Type Bearing
Pressure rating	: PN10	Type of Shaft Sealing	: Soft Packing

Materials

Volute Casing	0.6025 / GG25 / EN-GJL-250 / ASTM A48 Class 40B
Casing Cover	0.6025 / GG25 / EN-GJL-250 / ASTM A48 Class 40B
Impeller	0.6025 / GG25 / EN-GJL-250 / ASTM A48 Class 40B
Shaft	1.0503 / C45 / AISI 1045
Bearing Housing	0.6025 / GG25 / EN-GJL-250 / ASTM A48 Class 40B

Operating Point Data

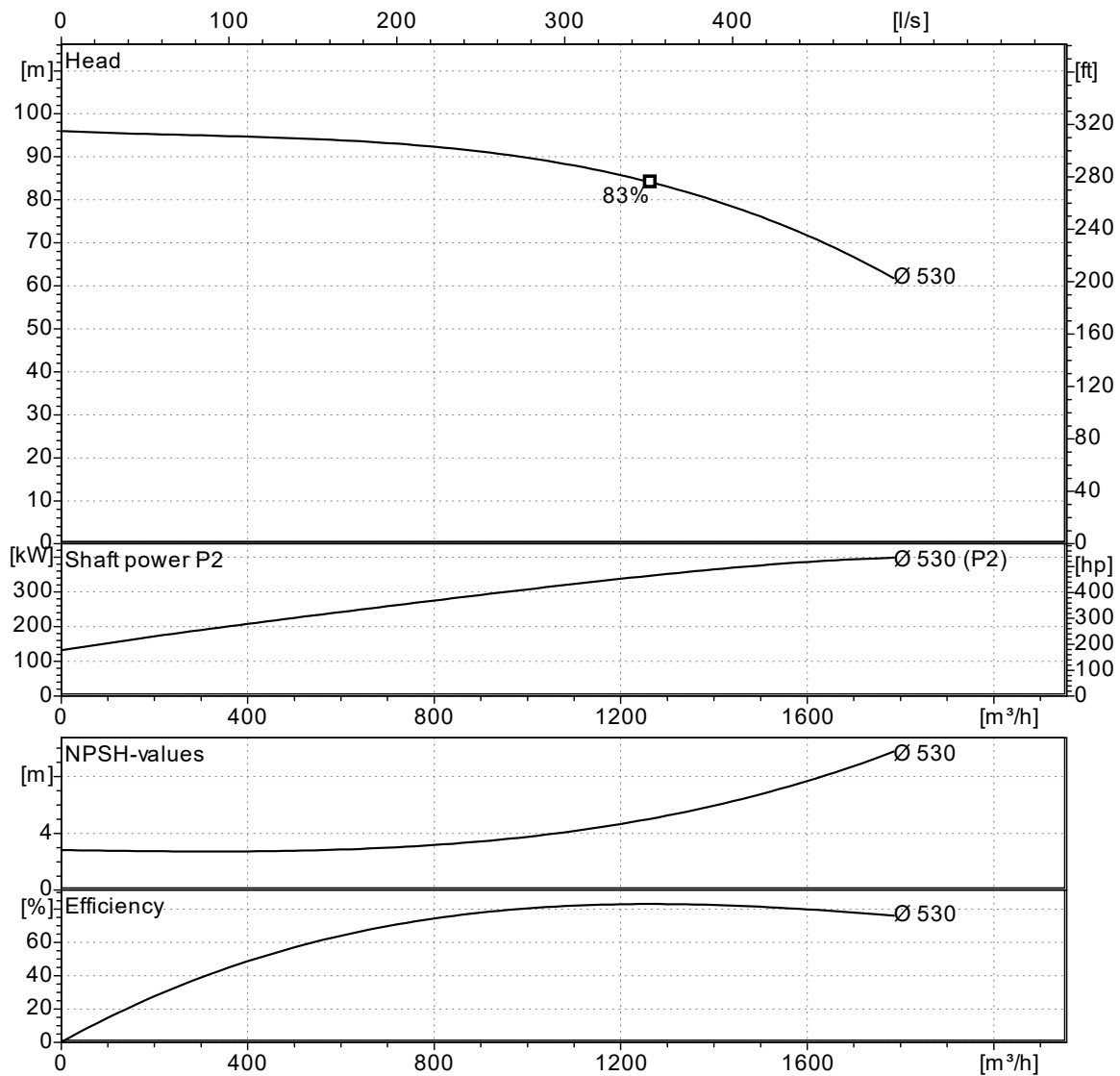
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Capacity:
Head:
Efficiency (%):
Power at Duty Point:
Viscosity: 1.005 cSt

NPSHr:
Motor Power: 450.00 kW
Nominal Speed: 1488 rpm
Frequency: 50 Hz
Density: 998.30 kg/m³



Curves compatible with ISO 9906:2012 Gr 3B

NPSHa > NPSHr + 1m

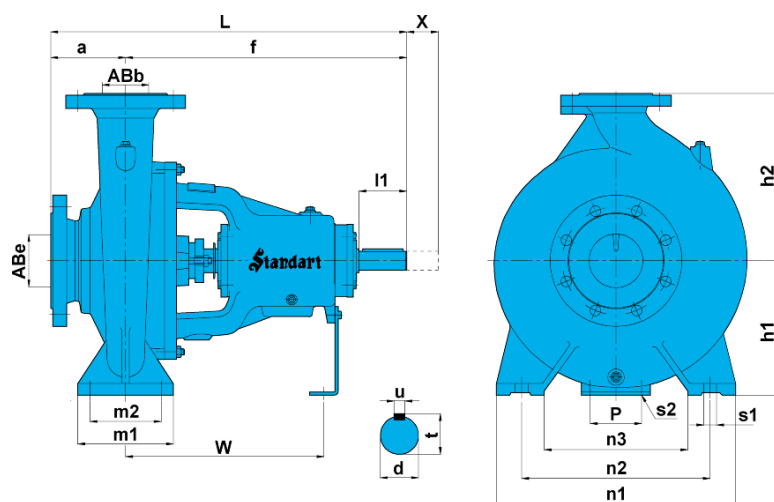
Note : The motor power is not sufficient for dotted area.

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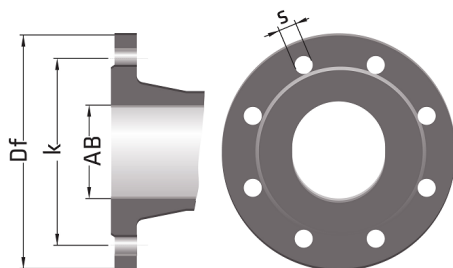
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Pump Dimensions



Name	Value
A	225
ABb	250
ABe	300
d	70
f	940
Form	D3
h1	450
h2	630
kg	660
L	1165
l1	140
m1	300
m2	240
n1	720
n2	600
n3	435
p	140
s1	27
s2	20
t	74.5
u	20
w	670
x	200

Flange Dimensions



Suction Flange

AB = 300
Df = 460
k = 410
n = 12
s = 28

Discharge Flange

AB = 250
Df = 405
k = 355
n = 12
s = 28

" n " number of holes

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Motor Data

Efficiency Level	:	
Motor type	:	Three-Phase Asynchronous Motor
Motor Power	:	450.0 kW
Rated Speed	:	1450 rpm
Voltage	:	400 V
Rated Current	:	0.00 A
Frequency	:	50 Hz
Motor Phase	:	3
Service Factor	:	1.15
Insulation Class	:	F
Degree of Protection	:	IP 55
Efficiency	:	- %
Power factor	:	0.00