

DATA SHEET

Company		Date	16/02/2023
Project		Item	
		Ref No.	

SNDS 125-450-90

Horizontal, double suction, single stage, axially split volute casing pump

Operating Point Data

Capacity	:	Power at Duty Point	:
Head	:	Frequency	: 50 Hz
Efficiency (%)	:	Voltage	: 400 V
Impeller Diameter	: 430 mm	Motor Power	: 90.00 kW
NPSHr	:	Nominal Speed	: 1480 rpm
Shut Off Head	: 62.5 m		

Liquid Data

Liquid	: Water	Density	: 998.30 kg/m ³
Temperature	: 20 °C	Viscosity	: 1.005 mm ² /s

Pump Data

Design	: Double suction, Single stage	Type of Coupling	: Standard
Installation	: Horizontal	Impeller Type	: Double Suction
Suction Flange	: EN 1092 PN 16-DN 200	Type of Bearing	: Grease Lubricated Bearing
Discharge Flange	: EN 1092 PN 16-DN 125	Type of Shaft Sealing	: Soft Packing
Direction Of Rotation	: Clockwise from the drive end		

Materials

Volute Casing	0.6025 / GG25 / EN-GJL-250 / ASTM A48 Class 40B
Impeller	0.6025 / GG25 / EN-GJL-250 / ASTM A48 Class 40B
Shaft	1.4021 / X20Cr13 / ASTM A276 Type 420
Bearing Housing	0.6025 / GG25 / EN-GJL-250 / ASTM A48 Class 40B
Casing Wear Ring	2.1050.01 / G-CuSn10 / ASTM B427 C90700
Shaft Protecting Sleeve	1.4021 / X20Cr13 / ASTM A276 Type 420

Operating Point Data

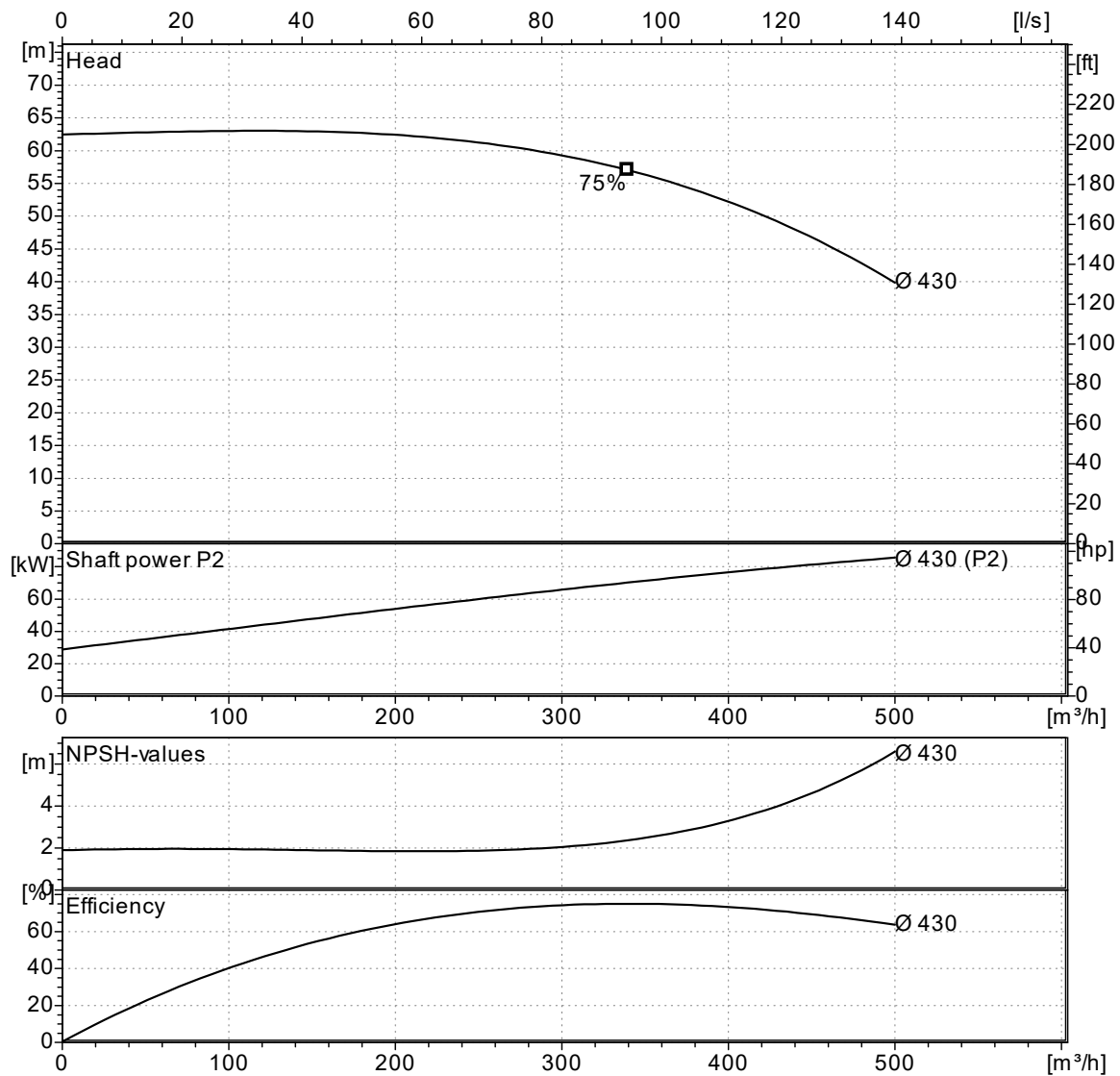
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Capacity:
Head:
Efficiency (%):
Power at Duty Point:
Viscosity: 1.005 mm²/s

NPSHr:
Motor Power: 90.00 kW
Nominal Speed: 1480 rpm
Frequency: 50 Hz
Density: 998.30 kg/m³



Curves compatible with ISO 9906:2012 Gr 3B

NPSHa > NPSHr + 1m

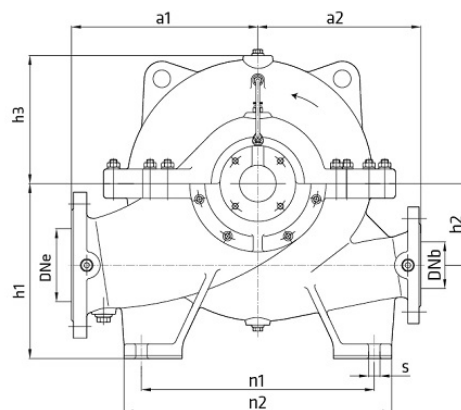
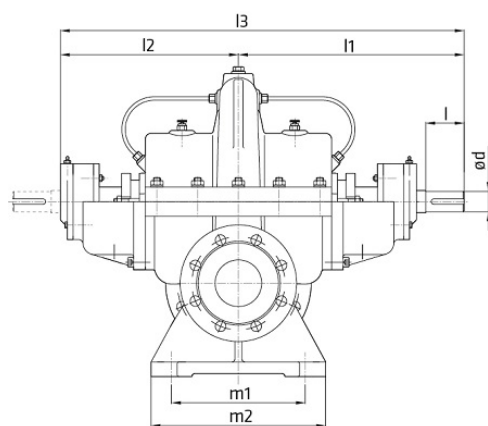
Note : The motor power is not sufficient for dotted area.

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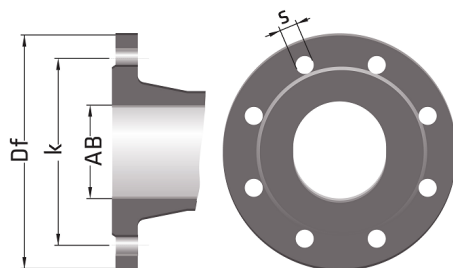
Pump Dimensions



Name	Value
a1	500
a2	450
d	55
DNb	125
DNe	200
h1	400
h2	200
h3	350
l	120
l1	555
l2	420
l3	975
m1	320
m2	380
n1	540
n2	640
s	22
W	410 kg

Note : l1 and l2 replaced each other since pump shaft rotates counter-clockw ise.

Flange Dimensions



Suction Flange

AB = 200
Df = 340
k = 295
n = 12
s = 23

Discharge Flange

AB = 125
Df = 250
k = 210
n = 8
s = 19

" n " number of holes

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Motor Data

Efficiency Level	:	
Motor type	:	Three-Phase Asynchronous Motor
Motor Power	:	90.0 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