



Technical Data

Project Name : Untitled project 2025-03-22 10:19:23.013	Project ID :
Company Name : Department : Phone number : e-mail address :	

Requested Data

Flow : 232.4 m ³ /h	Fluid : Water
Head : 48.95 m	Density : 0.9983 kg/dm ³
	Viscosity : 1.005 mm ² /s
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 100/400	Flow : 231.6 m ³ /h
Inlet / Outlet size : 125x100	Head : 48.62 m
Speed : 1450 1/min	Shutoff Head : 57.3 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 42.3 kW
Impeller type : Radial impeller	End of Power curve : 58 kW
Impeller Diameter : 401 mm	Efficiency : 72.49 %
Min.Impeller Diameter : 321 mm	NPSHr Value : 3.672 m
Max.Impeller Diameter : 401 mm	Moment of Inertia : 2.78 kg m ²
Maximum Solid Size : 22 mm	Operating Pressure : 4.761 bar
Pump Weight (Approx) : 172 kg	Maximum Allowable Pressure : 5.612 bar
Pump Standard : EN 733	Minimum Continuous Flow : 69.3 m ³ /h

Motor

Frequency : 50 Hz	Speed : 1450 1/min
Phase : 3~	Degree of Protection : IP 55
Rated Voltage : 415 V	Insulation Class : F
Rated current : 130 A	Frame size : 280SX
Rated Power P2 : 75 kW	

Material of Construction

Flange Connections

Casing : ASTM A743 / A351 CF8	Suction Flange
Impeller : ASTM A743 / A351 CF8	Pressure rating : 16 bar
Stuffing Box : ASTM A743 / A351 CF8	Nominal pipe size : 125
Wear Ring : ASTM A743 / A351 CF8	Standard : PN 16
Bearing Frame : ASTM A48 class 30B	
Shaft : ASTM A276 AISI 304	Discharge Flange
Shaft Sleeve : ASTM A276 AISI 304	Pressure rating : 16 bar
Shaft seal : GLAND PACKING	Nominal pipe size : 100
	Standard : PN 16



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Performance Curve

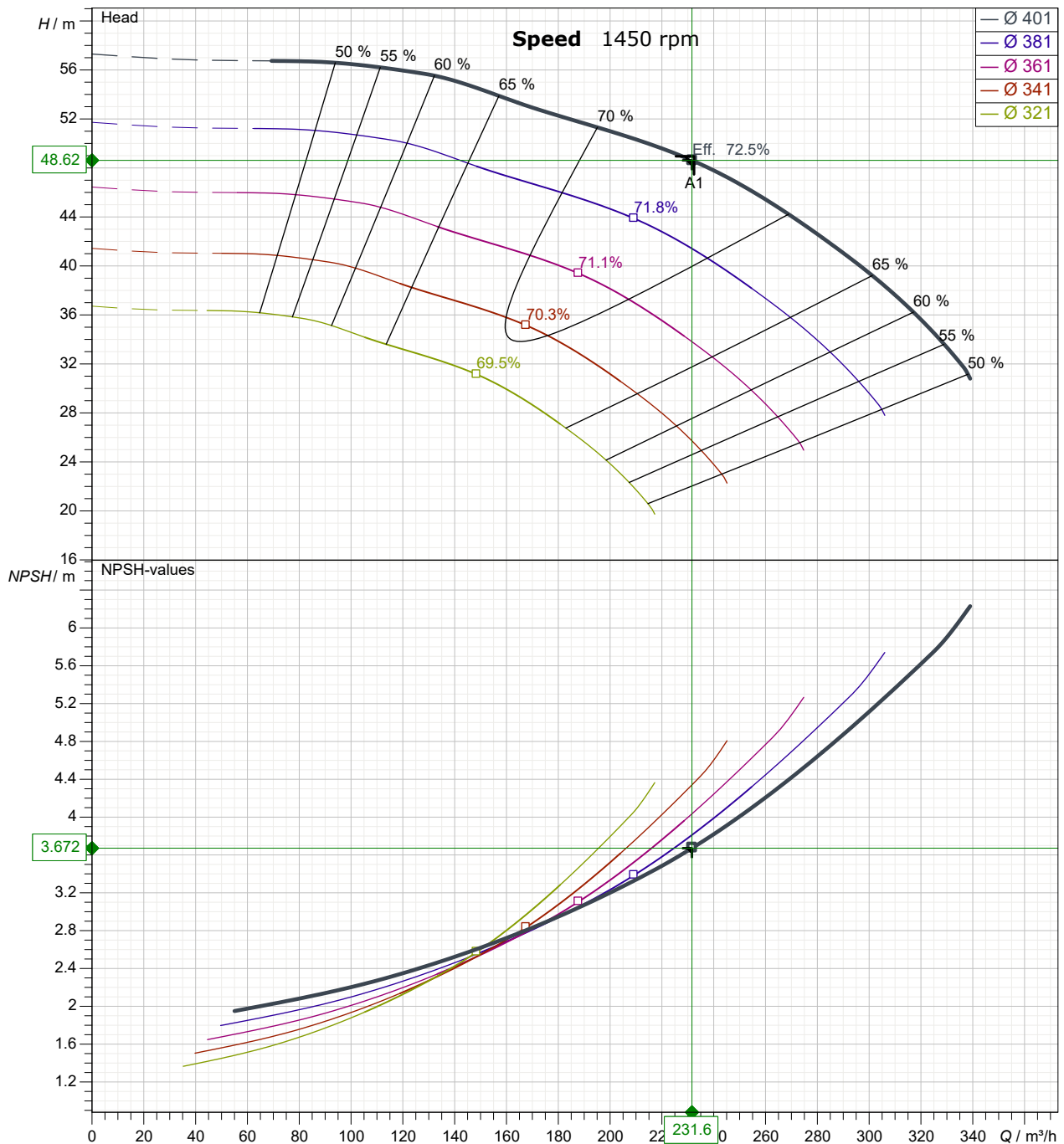
Pump Model
ECW 100/400

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Curve Tolerance ISO 9906 Grade 2B



Note:

- Performance is not guaranteed except for the rated point.
 - Curves specified are as per Specific gravity and viscosity of water 1.0,
 - Consider NPSH safety margin minimum of 0.5m .
- To select the motor size, read the value of the Power curve at the duty point



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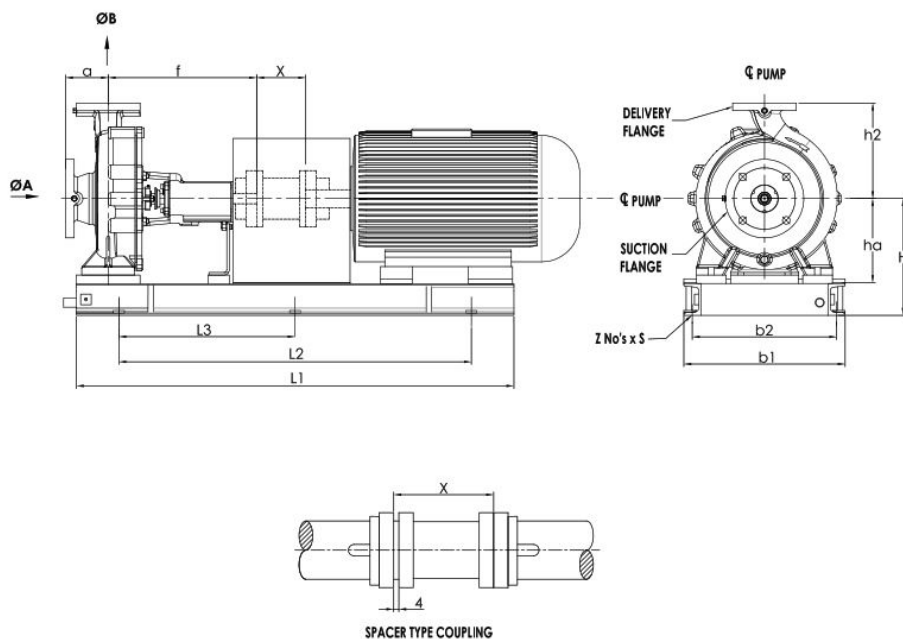
Dimensional Drawing

Pump Model
ECW 100/400

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In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions in mm

a	140			H.D-Discharge	19
b1	550			H.D-Suction	19
b2	520			No.of Holes-Discharge	8
f	530			No.of Holes-Suction	8
H	405			Nominal Size (ØA)	125
h2	355			Nominal Size (ØB)	100
ha	305			P.C.D-Discharge	180
L3	600			P.C.D-Suction	210
Ø A	125				
Ø B	100				
S	18				
X	140				
Z	6				