



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 : 120.5 m ³ /h	Fluid : Water
Head : 37.32 m	Density : 0.9983 kg/dm ³
	Viscosity : 1.005 mm ² /s
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 80/315	Flow : 120.5 m ³ /h
Inlet / Outlet size : 100x80	Head : 37.32 m
Speed : 1450 1/min	Shutoff Head : 41.22 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 16.9 kW
Impeller type : Radial impeller	End of Power curve : 21.89 kW
Impeller Diameter : 337.7 mm	Efficiency : 72.47 %
Min.Impeller Diameter : 270 mm	NPSHr Value : 3.106 m
Max.Impeller Diameter : 338 mm	Moment of Inertia : 1.2 kg m ²
Maximum Solid Size : 44 mm	Operating Pressure : 3.655 bar
Pump Weight (Approx) : 105 kg	Maximum Allowable Pressure : 4.036 bar
Pump Standard : EN 733	Minimum Continuous Flow : 35.93 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 : 34 A	Frame size : 180 M
Rated Power P2 : 18.5 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 : 100
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 : 80
	Standard : PN 16



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Performance Curve

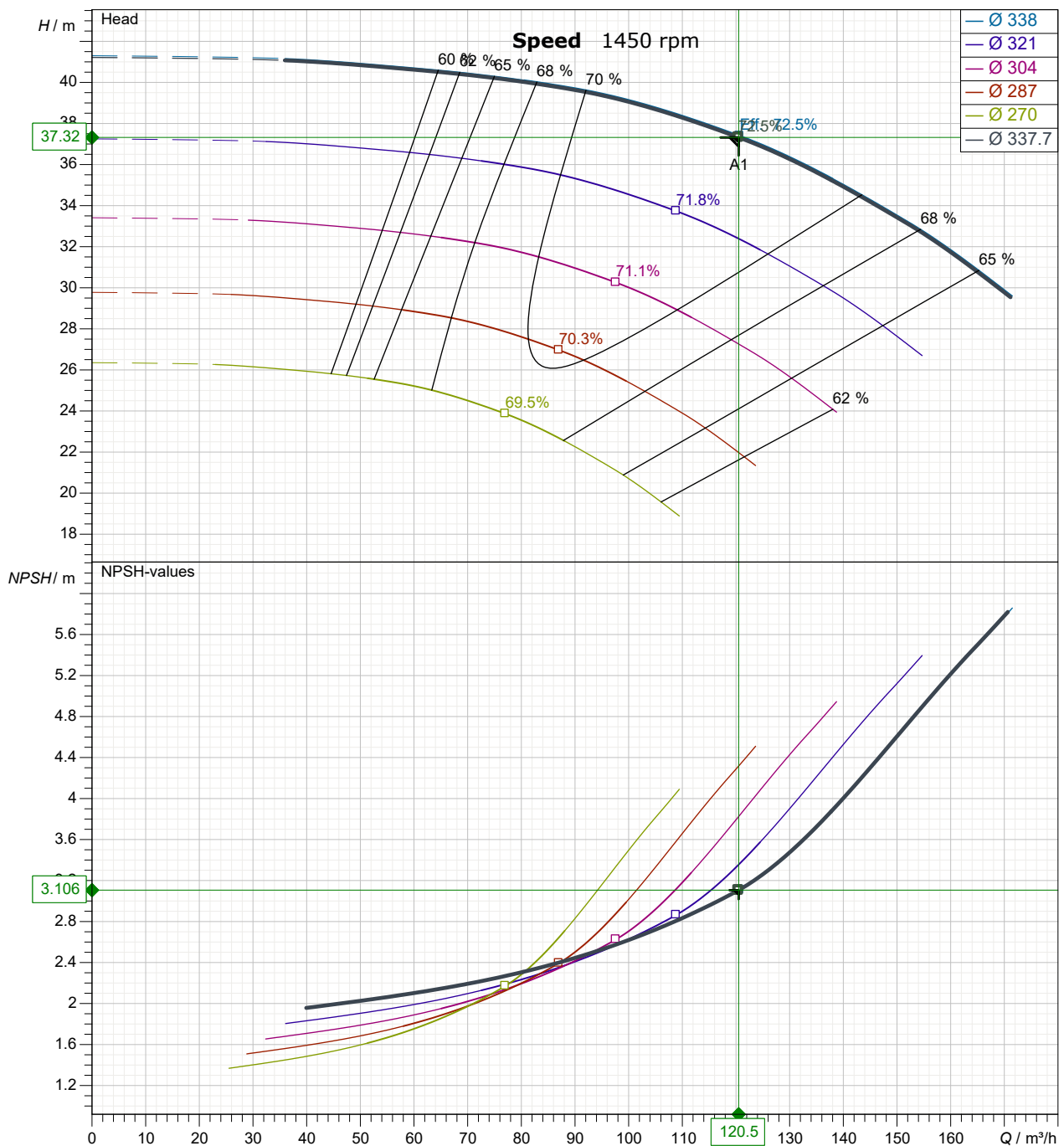
Pump Model
ECW 80/315

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Curve Tolerance ISO 9906 Grade 2B



Note:

- i. Performance is not guaranteed except for the rated point.
 - ii. Curves specified are as per Specific gravity and viscosity of water 1.0,
 - iii. 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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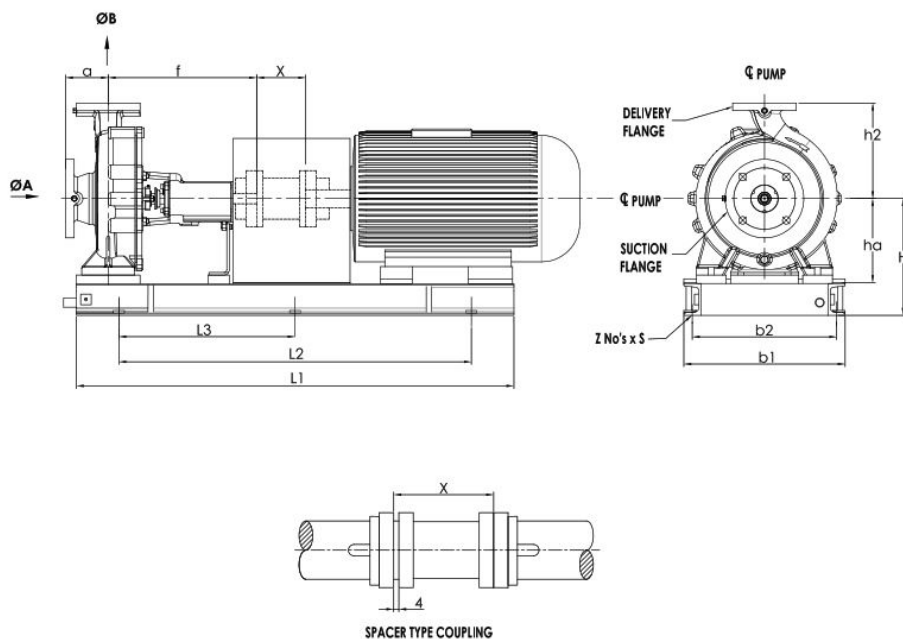
Dimensional Drawing

Pump Model
ECW 80/315

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

Dimensions in mm

a	125			H.D(Delivery)	19
b1	420			H.D(Suction)	19
b2	390			No.of Holes-Discharge	8
f	470			No.of Holes-Suction	8
H	345			Nominal Size (ØA)	100
h2	315			Nominal Size (ØB)	80
hA	270			P.C.D(Delivery)	160
L1	1210			P.C.D(Suction)	180
L2	1010				
L3	505				
Ø A	100				
Ø B	80				
S	14				
X	140				
Z	6				