



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 : 164.3 m ³ /h	Fluid : Water
Head : 48.36 m	Density : 0.9983 kg/dm ³
	Viscosity : 1.005 mm ² /s
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 80/400	Flow : 163.8 m ³ /h
Inlet / Outlet size : 100x80	Head : 48.05 m
Speed : 1450 1/min	Shutoff Head : 55 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 28.19 kW
Impeller type : Radial impeller	End of Power curve : 33.85 kW
Impeller Diameter : 400 mm	Efficiency : 76.01 %
Min.Impeller Diameter : 320 mm	NPSHr Value : 3.972 m
Max.Impeller Diameter : 400 mm	Moment of Inertia : 2.524 kg m ²
Maximum Solid Size : 16 mm	Operating Pressure : 4.706 bar
Pump Weight (Approx) : 162 kg	Maximum Allowable Pressure : 5.386 bar
Pump Standard : EN 733	Minimum Continuous Flow : 49.2 m ³ /h

Motor

Frequency :	Speed :
Phase :	Degree of Protection :
Rated Voltage :	Insulation Class :
Rated current :	Frame size :
Rated Power P2 :	

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 80/400

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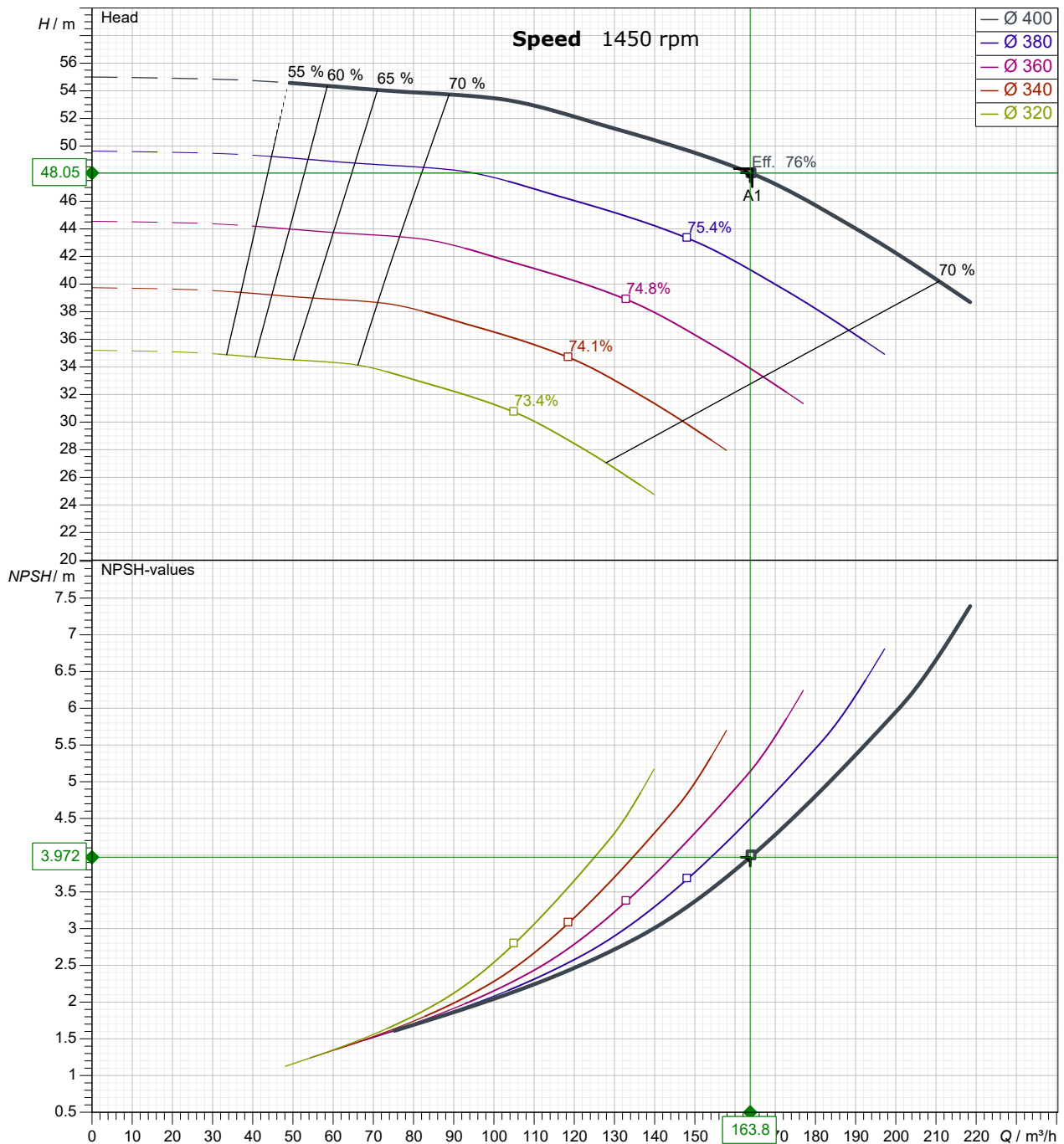
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Curve Tolerance ISO 9906 Grade 2B



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 80/400

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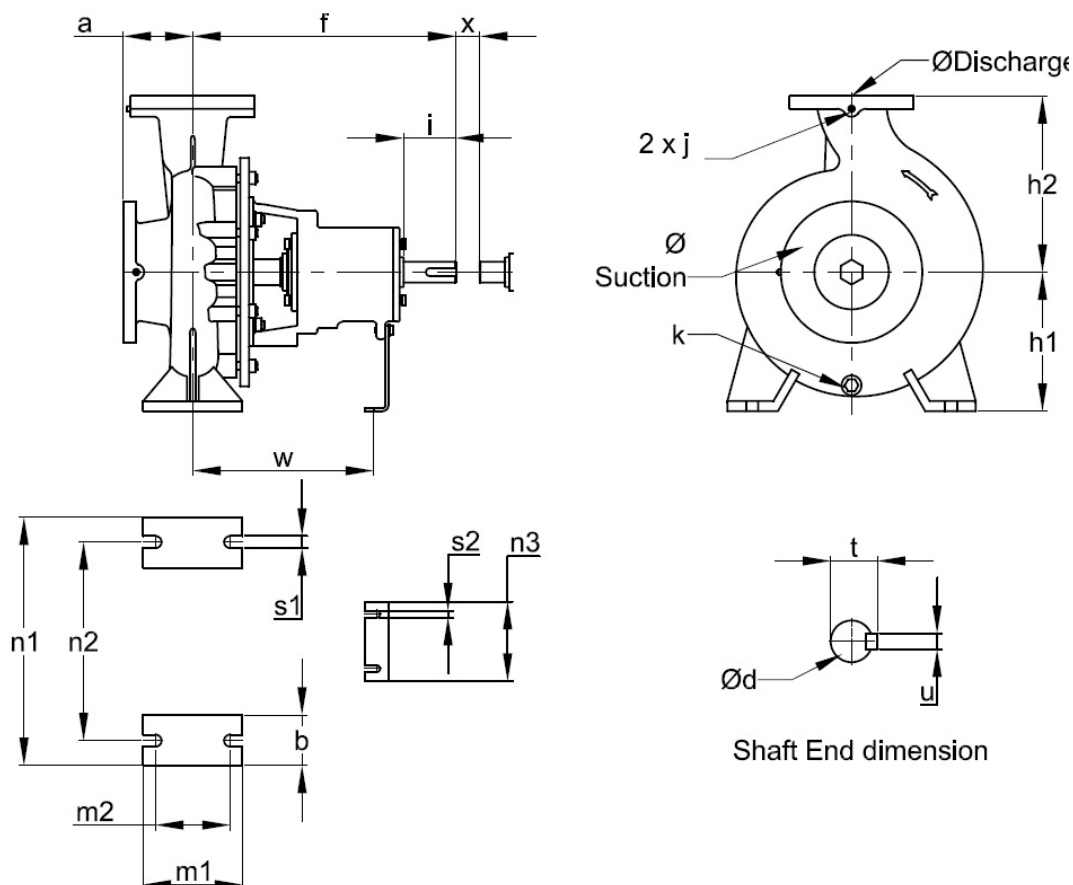
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In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions in mm

a	125	t	44	H.D(Delivery)	19
b	100	u	12	H.D(Suction)	19
d	42	w	370	No.of Holes-Discharge	8
f	530	x	140	No.of Holes-Suction	8
h1	280			Nominal Size (ØA)	100
h2	355			Nominal Size (ØB)	80
i	110			P.C.D(Delivery)	160
m1	200			P.C.D(Suction)	180
m2	120				
m3	48				
n1	435				
n2	355				
n3	110				
n4	160				
s1	24				
s2	14				