



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 : 47.64 m ³ /h	Fluid : Water
Head : 40.12 m	Density : 0.9983 kg/dm ³
	Viscosity : 1.005 mm ² /s
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 40/160	Flow : 47.55 m ³ /h
Inlet / Outlet size : 65x40	Head : 39.97 m
Speed : 2900 1/min	Shutoff Head : 42.1 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 6.998 kW
Impeller type : Radial impeller	End of Power curve : 8.85 kW
Impeller Diameter : 174 mm	Efficiency : 73.97 %
Min.Impeller Diameter : 139 mm	NPSHr Value : 3.999 m
Max.Impeller Diameter : 174 mm	Moment of Inertia : 0.076 kg m ²
Maximum Solid Size : 13 mm	Operating Pressure : 3.915 bar
Pump Weight (Approx) : 35 kg	Maximum Allowable Pressure : 4.123 bar
Pump Standard : EN 733	Minimum Continuous Flow : 14.25 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 : 65
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 : 40
	Standard : PN 16



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Performance Curve

Pump Model
ECW 40/160

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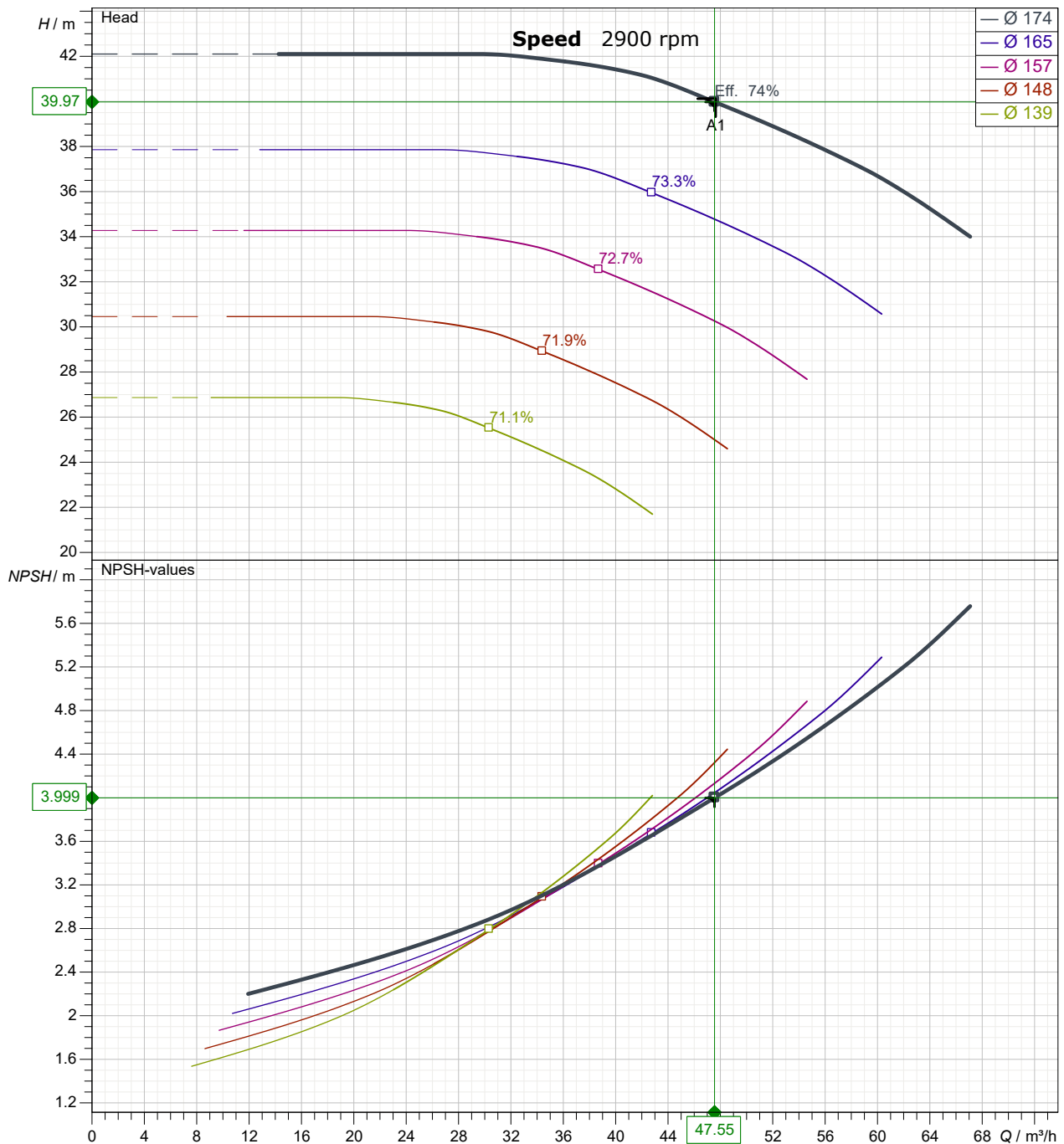
Company Name :

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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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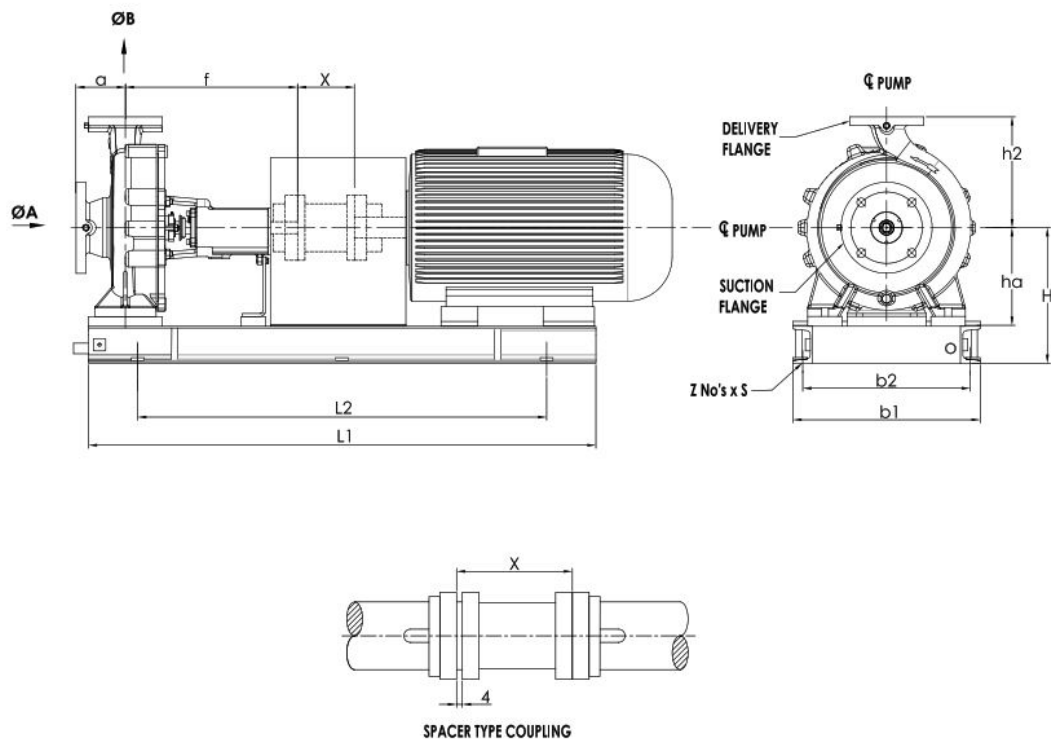
Dimensional Drawing

Pump Model
ECW 40/160

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

Dimensions in mm

a	80			H.D(Delivery)	19
b1	240			H.D(Suction)	19
b2	210			No.of Holes-Discharge	4
f	360			No.of Holes-Suction	4
H	227			Nominal Size (ØA)	65
h2	160			Nominal Size (ØB)	40
ha	152			P.C.D(Delivery)	110
L1	750			P.C.D(Suction)	145
L2	550				
Ø A	65				
Ø B	40				
S	14				
X	100				
Z	4				