



C.R.I. PUMPS
Pumping trust. Worldwide.

Technical Data

Pump Model
ECW 80/160

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

Requested Data

Flow : 150.4 m ³ /h	Fluid : Water
Head : 36.79 m	Density : 0.9983 kg/dm ³
	Viscosity : 1.005 mm ² /s
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 80/160	Flow : 71.16 m ³ /h
Inlet / Outlet size : 100x80	Head : 8.235 m
Speed : 1450 1/min	Shutoff Head : 9.417 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 2.489 kW
Impeller type : Radial impeller	End of Power curve : 3.3 kW
Impeller Diameter : 178 mm	Efficiency : 63.98 %
Min.Impeller Diameter : 151 mm	NPSHr Value : 1.014 m
Max.Impeller Diameter : 178 mm	Moment of Inertia : 0.098 kg m ²
Maximum Solid Size : 32 mm	Operating Pressure : 0.8065 bar
Pump Weight (Approx) : 41 kg	Maximum Allowable Pressure : 0.9223 bar
Pump Standard : EN 733	Minimum Continuous Flow : 30 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 : 7.2 A	Frame size : 112 M
Rated Power P2 : 3.7 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	Discharge Flange
Shaft : ASTM A276 AISI 304	Pressure rating : 16 bar
Shaft Sleeve : ASTM A276 AISI 304	Nominal pipe size : 80
Shaft seal : GLAND PACKING	Standard : PN 16



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Performance Curve

Pump Model
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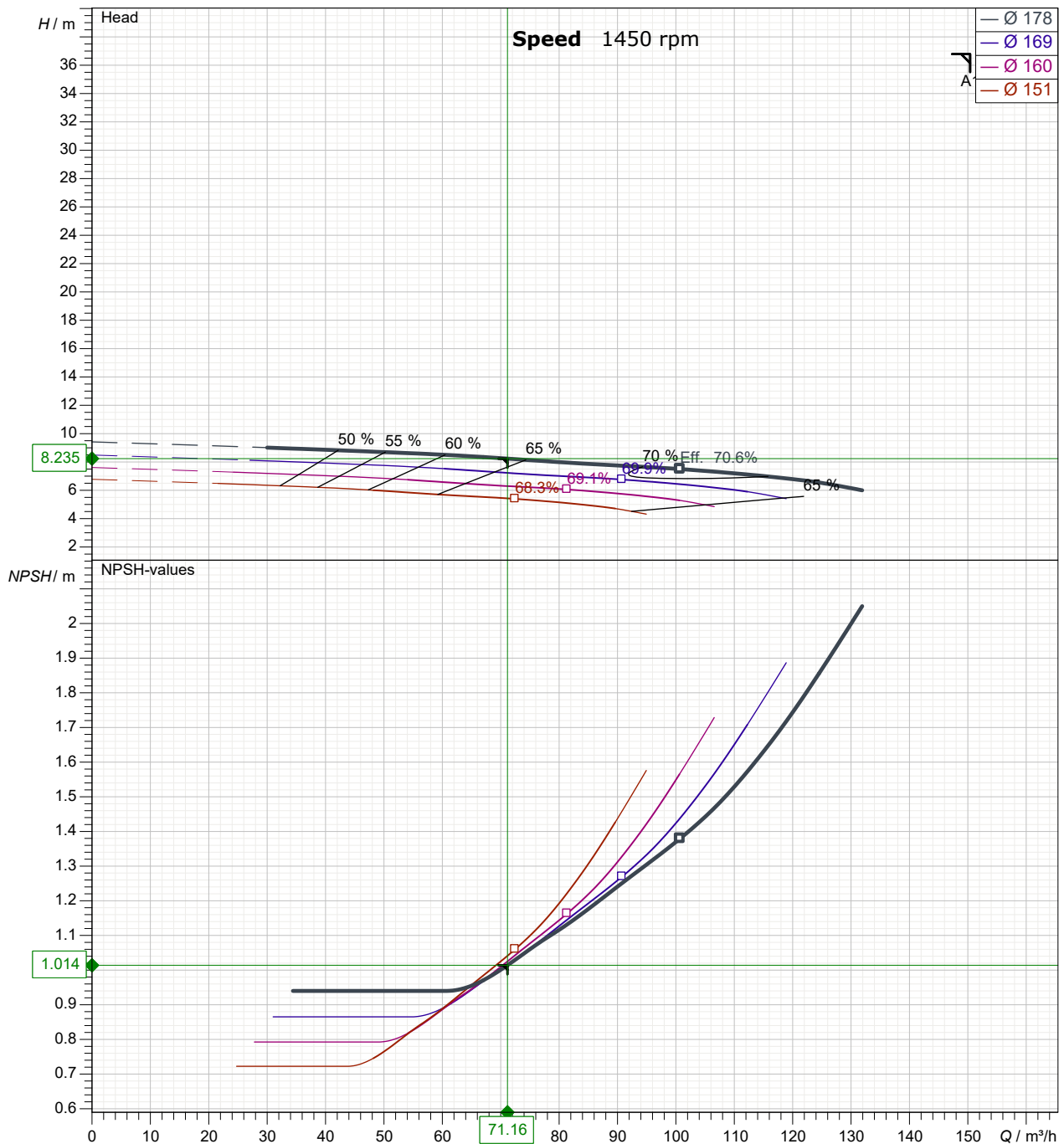
Company Name :

Department :

Phone number :

e-mail address :

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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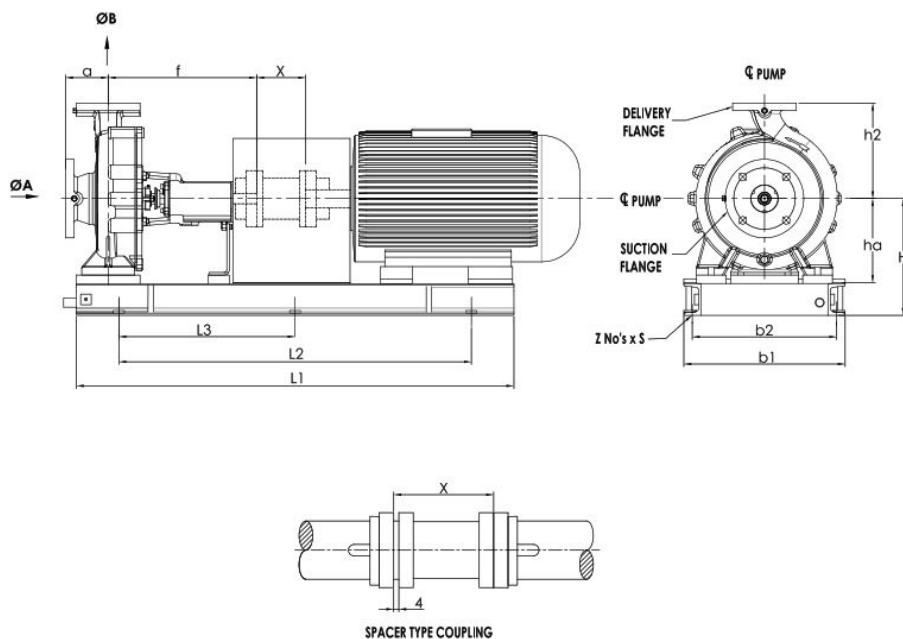
Dimensional Drawing

Pump Model
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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	380			H.D(Suction)	19
b2	350			No.of Holes-Discharge	8
f	360			No.of Holes-Suction	8
H	275			Nominal Size (ØA)	100
h2	225			Nominal Size (ØB)	80
hA	200			P.C.D(Delivery)	160
L1	890			P.C.D(Suction)	180
L2	690				
L3	345				
Ø A	100				
Ø B	80				
S	14				
X	140				
Z	6				