



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

Technical Data

Pump Model
ECW 50/200

Project Name : Untitled project 2025-03-22 10:19:23.013

Project ID :

Company Name :
Department :
Phone number :
e-mail address :

Requested Data

Flow : 80.61 m³/h
Head : 62.43 m

Fluid : Water
Density : 0.9983 kg/dm³
Viscosity : 1.005 mm²/s
Temperature : 20 °C

Pump

Pump Model : ECW 50/200
Inlet / Outlet size : 65x50
Speed : 2900 1/min
Direction of Rotation : Clockwise from the drive end
Impeller type : Radial impeller
Impeller Diameter : 218.6 mm
Min.Impeller Diameter : 175 mm
Max.Impeller Diameter : 219 mm
Maximum Solid Size : 16 mm
Pump Weight (Approx) : 44 kg
Pump Standard : EN 733

Operating Data

Flow : 80.61 m³/h
Head : 62.43 m
Shutoff Head : 70.02 m
Shaft Power (BkW) : 18.14 kW
End of Power curve : 20.28 kW
Efficiency : 75.58 %
NPSHr Value : 4.513 m
Moment of Inertia : 0.17 kg m²
Operating Pressure : 6.114 bar
Maximum Allowable Pressure : 6.857 bar
Minimum Continuous Flow : 24.05 m³/h

Motor

Frequency : 50 Hz
Phase : 3~
Rated Voltage : 415 V
Rated current : 37 A
Rated Power P2 : 22 kW

Speed : 2900 1/min
Degree of Protection : IP 55
Insulation Class : F
Frame size : 180 M

Material of Construction

Casing : ASTM A743 / A351 CF8
Impeller : ASTM A743 / A351 CF8
Stuffing Box : ASTM A743 / A351 CF8
Wear Ring : ASTM A743 / A351 CF8
Bearing Frame : ASTM A48 class 30B
Shaft : ASTM A276 AISI 304
Shaft Sleeve : ASTM A276 AISI 304
Shaft seal : GLAND PACKING

Flange Connections

Suction Flange
Pressure rating : 16 bar
Nominal pipe size : 65
Standard : PN 16

Discharge Flange
Pressure rating : 16 bar
Nominal pipe size : 50
Standard : PN 16



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Performance Curve

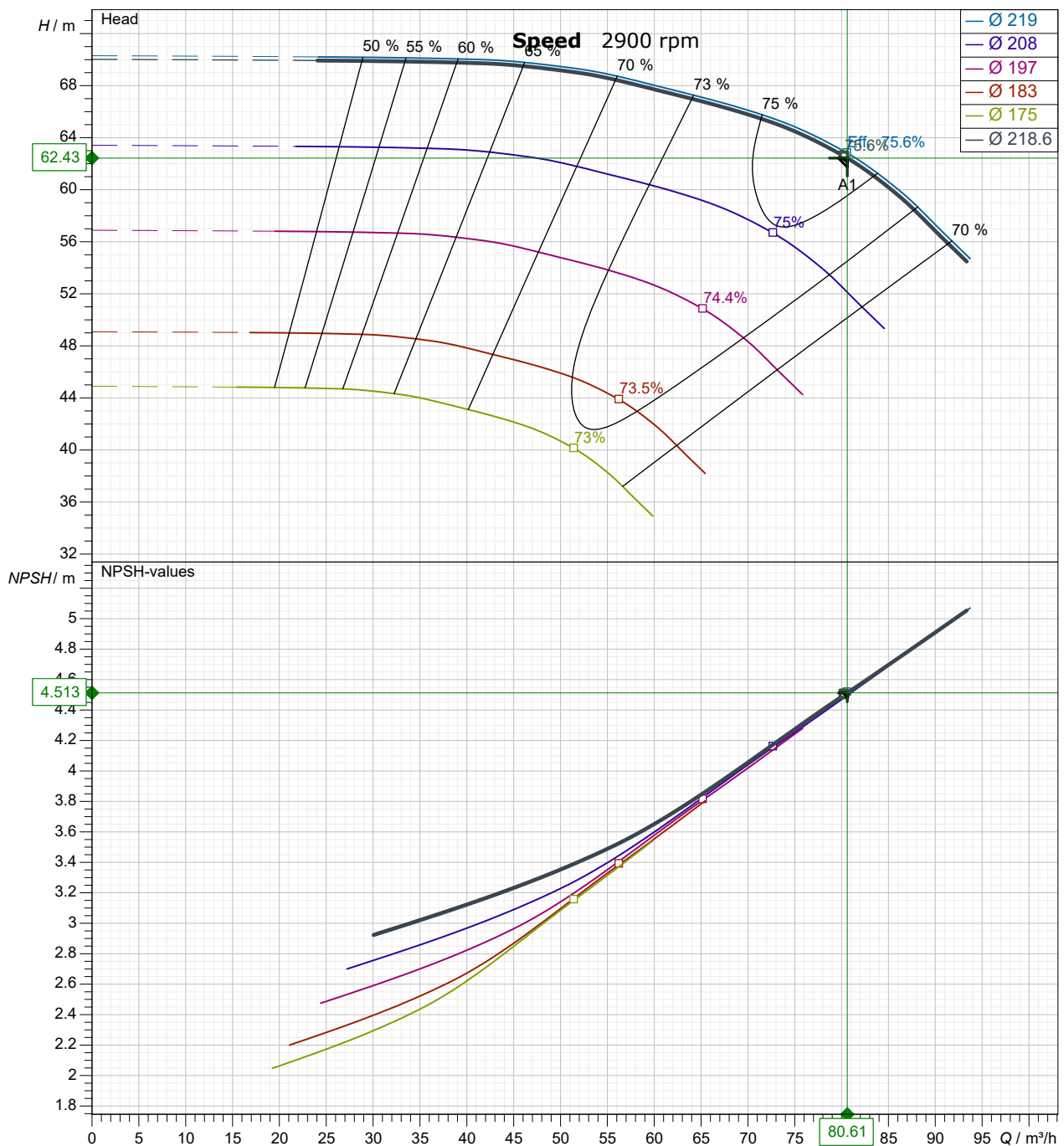
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Curve Tolerance ISO 9906 Grade 2B



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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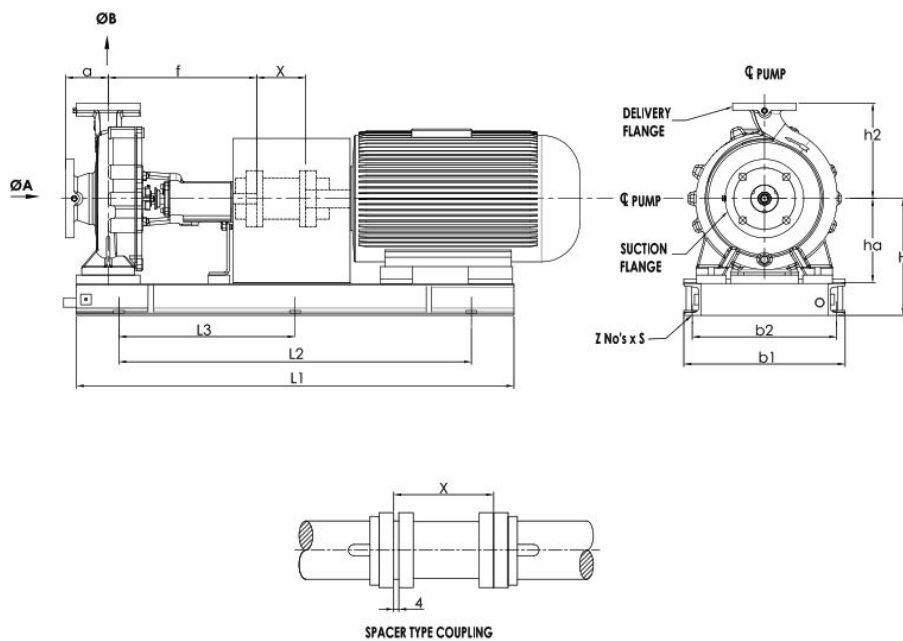
Dimensional Drawing

Pump Model
ECW 50/200

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

Dimensions in mm

a	100			H.D(Delivery)	19
b1	430			H.D(Suction)	19
b2	400			No.of Holes-Discharge	4
f	360			No.of Holes-Suction	4
H	255			Nominal Size (ØA)	65
h2	200			Nominal Size (ØB)	50
hA	180			P.C.D(Delivery)	125
L1	1040			P.C.D(Suction)	145
L2	840				
L3	420				
Ø A	65				
Ø B	50				
S	14				
X	100				
Z	6				