

Pump Data Sheet - Xylem

Company:
Name:
Date: 05/05/2022



Pump:

Size: e1610 4E
Type: e1610 End Suction
Synch Speed: 1500 rpm
Dia: 417.1 mm
Weight (kg): ---
Impeller: 400mm

Dimensions:
Suction: 125 mm
Discharge: 100 mm

Fluid:

Name: Water
SG: 1
Density: 999 kg/m³
Viscosity: 1.1 cP
Temperature: 15.6 °C
Vapor Pressure: 1.77 kPa a
Atm Pressure: 101 kPa a
Margin Ratio: 1

Pump Limits:

Temperature: 120 °C
Wkg Pressure: ---
Sphere Size: ---

Motor:

Standard: e1610 End Suc
Enclosure: e1610 4E
Frame: ---
Sizing Criteria: Sized by User
Size: 45 kW
Speed: 1500 rpm

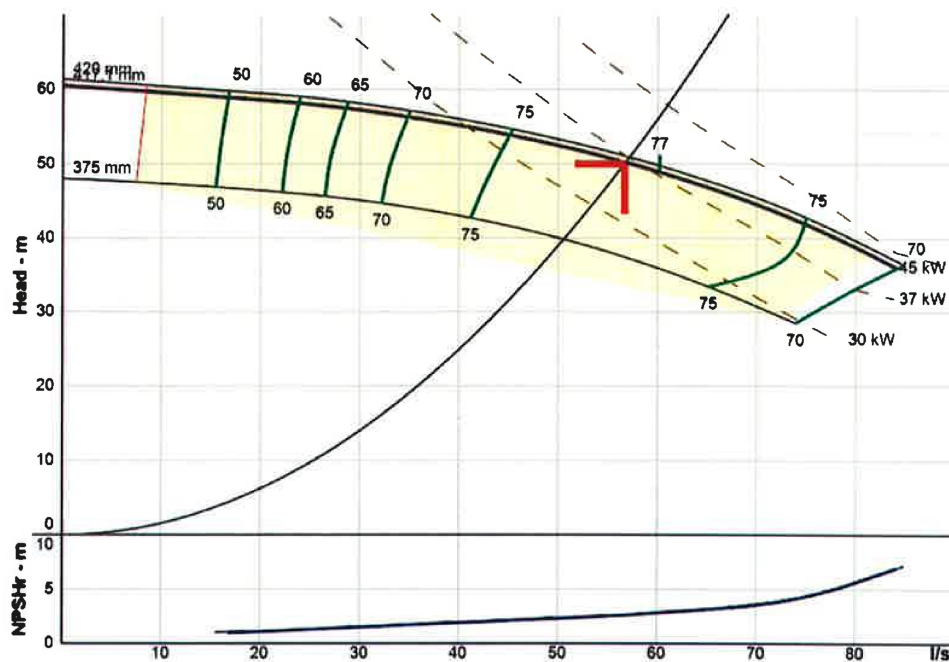
Search Criteria:

Flow: 56.7 l/s
Head: 50 m
Near Miss: ---
Static Head: 0 m

Pump Selection Warnings:

Selected motor does not meet initial motor sizing criteria.

— Duty Point —	
Flow:	56.7 l/s
Head:	50 m
Eff:	76.5%
Power:	36.1 kW
NPSHr:	2.67 m
Speed:	1475 rpm
— Design Curve —	
Shutoff Head:	60.5 m
Shutoff dP:	593 kPa
Min Flow:	8.43 l/s
BEP:	77% @ 60.2 l/s
NOL Power:	42.3 kW @ 84.2 l/s
— Max Curve —	
Max Power:	43.9 kW @ 83.3 l/s



Performance Evaluation:

Flow l/s	Speed rpm	Head m	Efficiency %	Power kW	NPSHr m
68	1475	45.2	75.9	39.3	3.62
56.7	1475	50	76.5	36.1	2.67
45.4	1475	53.8	75	31.8	2.13
34	1475	56.5	69.3	27.1	1.66
22.7	1475	58.3	58.4	22.1	1.19