

Company:
Name:
Date: 07/25/2021



Pump:

Size: 80x50-315 **Dimensions:**
Type: ISOspec CF Series Suction: 80 mm
Synch Speed: Adjustable Discharge: 50 mm
Dia: 342 mm
Curve: 2000-3000rpm

Fluid:

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

Search Criteria:

Flow: --- Near Miss: ---
Head: --- Static Head: 0 m

Pump Limits:

Temperature: --- Sphere Size: ---
Wkg Pressure: ---

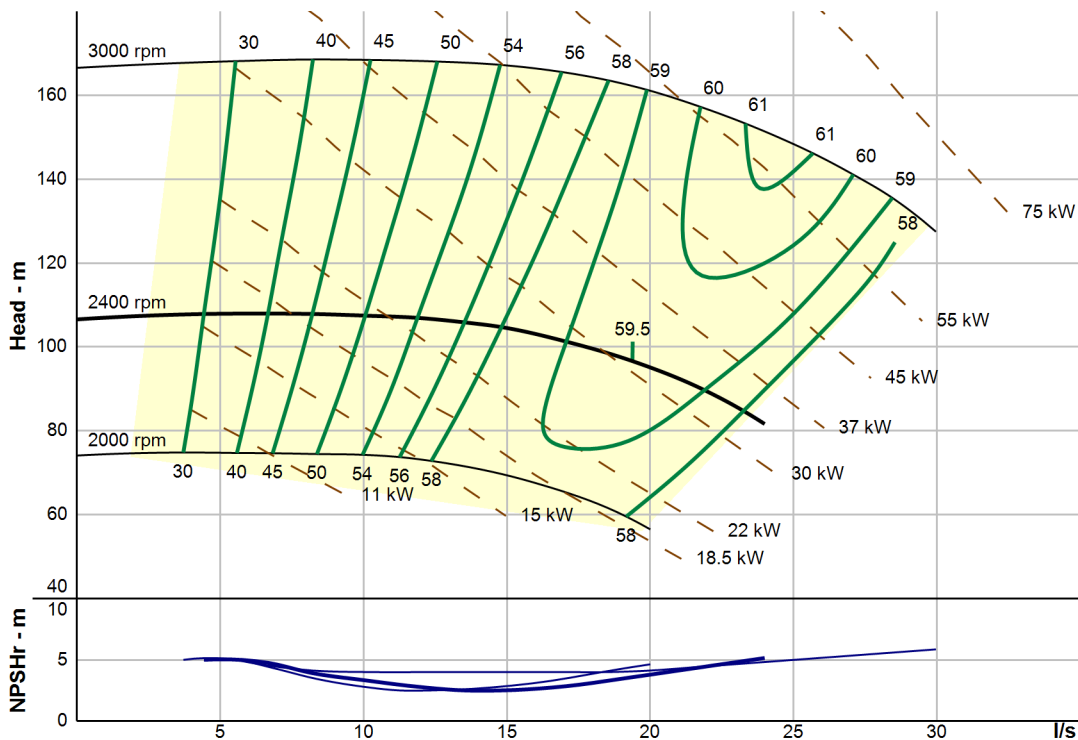
Motor:

Consult Davey Water Products to select a motor for this pump.

Pump Selection Warnings:

None

--- Duty Point ---	
Flow:	19.4 l/s
Head:	96.6 m
Eff:	59.5%
Power:	30.8 kW
NPSHr:	3.58 m
Speed:	2400 rpm
--- Design Curve ---	
Shutoff Head:	107 m
Shutoff dP:	1044 kPa
Min Flow:	--- l/s
BEP:	59.5% @ 19.4 l/s
NOL Power:	33.5 kW @ 24 l/s
--- Max Curve ---	
Max Power:	65.1 kW @ 30 l/s



Note: Curves were directly converted from standard datas without testing, for reference only, not as the acceptance criterion.

Performance Evaluation:

Flow	Speed	Head	Efficiency	Power	NPSHr
l/s	rpm	m	%	kW	m
23	2400	85.7	58.2	33.1	4.81
19.2	2400	97	59.5	30.7	3.53
15.4	2400	104	58.3	26.8	2.59
11.5	2400	107	53.2	22.7	2.91
7.68	2400	108	43.3	18.7	4.2