Self-priming Pump

Etaprime L/ Etaprive B

50 Hz

Characteristic Curves Booklet
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Characteristic Curves Booklet Etaprime L/ Etaprime B

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Centrifugal Pumps with Shaft Seal

Self-priming Pump / Close-coupled Pump

Etaprime L / Etaprime B

General

NPSH values
The NPSH values indicated in the characteristic curves correspond to a head drop of 3 %.

NPSH values in low-flow conditions
NPSH values for flow rates below $Q = 0.3 \times Q_{opt}$ can only be measured with intense technical efforts. Evidence of NPSH values in the low-flow range cannot be provided.

Density of the fluid handled
The indicated heads and performance data apply to pumped fluids with a density $\rho = 1.0 \, \text{kg/dm}^3$ and a kinematic viscosity of up to $20 \, \text{mm}^2/\text{s}$ max. If the density $\neq 1.0$, the performance data must be multiplied by $\rho$. For viscosities $>20 \, \text{mm}^2/\text{s}$ the corresponding data for cold water has to be calculated and the impact on the pump’s performance has to be determined.

Friction loss
For some design variants (reinforced bearings, specific shaft seals) friction losses must be considered and indicated as additional power requirement in the data sheet.
## Overview of sizes

### Centrifugal Pumps with Shaft Seal

**Self-priming Pump / Close-coupled Pump**

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Selection charts

Etaprime L/B, n = 2900 rpm

* Also available in stainless steel material variant
Etaprime L/B, n = 1450 rpm

* Also available in stainless steel material variant
Characteristic curves

\( n = 2900 \text{ rpm} \)

Etaprime L/B 025-025-100, \( n = 2900 \text{ rpm} \)
Etaprime L/B 032-032-120, n = 2900 rpm

Centrifugal Pumps with Shaft Seal
Self-priming Pump / Close-coupled Pump

Etaprime L / Etaprime B
Etaprime L/B 040-040-110, n = 2900 rpm

Centrifugal Pumps with Shaft Seal
Self-priming Pump / Close-coupled Pump
Etaprime L/B 040-040-140, n = 2900 rpm

Centrifugal Pumps with Shaft Seal
Self-priming Pump / Close-coupled Pump

Etaprime L / Etaprime B
Etaprime L/B 050-050-160, n = 2900 rpm

Centrifugal Pumps with Shaft Seal
Self-priming Pump / Close-coupled Pump

Etaprime L / Etaprime B
Etaprime L/B 080-080-190, n = 2900 rpm

Centrifugal Pumps with Shaft Seal
Self-priming Pump / Close-coupled Pump

Etaprime L / Etaprime B
Etaprime L/B 080-080-200, n = 2900 rpm

Centrifugal Pumps with Shaft Seal
Self-priming Pump / Close-coupled Pump

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Etaprime L/B 100-100-240.1, n = 2900 rpm

Centrifugal Pumps with Shaft Seal
Self-priming Pump / Close-coupled Pump

Etaprime L / Etaprime B 19
Etaprime L 100-100-240, n = 2900 rpm

![Graph showing performance characteristics of the pump, including Q vs. H, Q vs. NPSH, and Q vs. P.](image-url)
Etaprime L 125-125-260, n = 2900 rpm
n = 1450 rpm

Etaprime L/B 025-025-100, n = 1450 rpm

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Centrifugal Pumps with Shaft Seal
Self-priming Pump / Close-coupled Pump
Etaprime L/B 032-032-120, n = 1450 rpm

Centrifugal Pumps with Shaft Seal
Self-priming Pump / Close-coupled Pump

Etaprime L / Etaprime B
Etaprime L/B 040-040-110, n = 1450 rpm

- **Head (H)**: Measured in meters (m) and feet (ft).
- **Flow Rate (Q)**: Measured in cubic meters per hour (m³/h), US gallons per minute (US.gpm), and Imperial gallons per minute (IM.gpm).
- **NPSH (Net Positive Suction Head)**: Measured in meters (m) and feet (ft).
- **Power (P)**: Measured in kilowatts (kW) and horsepower (hp).
Centrifugal Pumps with Shaft Seal
Self-priming Pump / Close-coupled Pump

Etaprime L/B 040-040-140, n = 1450 rpm

- Qmin
- H [m]
- NPSH_R [m]
- P [kW]

- Q [US.gpm]
- Q [IM.gpm]
- Q [l/s]
- H [ft]
- NPSH_R [ft]
- P [hp]

ø144

K2753.454/04/0
Etaprime L/B 050-050-130, n = 1450 rpm

Centrifugal Pumps with Shaft Seal
Self-priming Pump / Close-coupled Pump

Qmin

H [m]

0 2 4 6 Q [l/s]

NPSH R [m]

0 1 2 3 4 P [kW]

0 0.20 0.25 0.30 P [hp]

0 5 10 15 20 25 Q [l/s]

ø128
Etaprime L/B 050-050-160, n = 1450 rpm

Centrifugal Pumps with Shaft Seal
Self-priming Pump / Close-coupled Pump

Etaprime L / Etaprime B

K2753.454/06/0
Etaprime L/B 065-065-150, n = 1450 rpm

Etaprime L / Etaprime B

Centrifugal Pumps with Shaft Seal
Self-priming Pump / Close-coupled Pump
Etaprime L/B 065-065-180, n = 1450 rpm

Centrifugal Pumps with Shaft Seal
Self-priming Pump / Close-coupled Pump

Etaprime L / Etaprime B
Etaprime L/B 080-080-170, n = 1450 rpm

Centrifugal Pumps with Shaft Seal
Self-priming Pump / Close-coupled Pump
Etaprime L/B 080-080-190, n = 1450 rpm

Centrifugal Pumps with Shaft Seal
Self-priming Pump / Close-coupled Pump

Etaprime L / Etaprime B
Etaprime L/B 080-080-200, n = 1450 rpm

Centrifugal Pumps with Shaft Seal
Self-priming Pump / Close-coupled Pump

K2753.454/11/0

Qmin

H [m]

NPSH_R [m]

P [kW]

P [hp]
Etaprime L/B 100-100-240.1, n = 1450 rpm

- **Q [m³/h]**
- **Q [US.gpm]**
- **Q [IM.gpm]**
- **H [m]**
- **H [ft]**
- **Qmin**
- **NPSH R [m]**
- **NPSH R [ft]**
- **P [kW]**
- **P [hp]**

**Centrifugal Pumps with Shaft Seal**

**Self-priming Pump / Close-coupled Pump**

Etaprime L / Etaprive B
Etaprive L 100-100-240, n = 1450 rpm

Centrifugal Pumps with Shaft Seal
Self-priming Pump / Close-coupled Pump

K2753.454/13/0
Etaprime L 125-125-260, n = 1450 rpm

Centrifugal Pumps with Shaft Seal
Self-priming Pump / Close-coupled Pump

Etaprime L / Etaprime B