2" BFK & BFV Series

SUBMERSIBLE SEWAGE PUMPS
APPLICATIONS

Used in a variety of residential, commercial and industrial applications such as:
• Sewage systems
• Flood and pollution control
• Dewatering/effluent
• Farms
• Hospitals
• Trailer courts
• Motels

SPECIFICATIONS

• Capacities:
  2” Series: Up to 290 gpm
• Total head:
  2” Series: Up to 88 feet TDH
• Horsepower:
  2” Series: Up to 3.8 hp
• Discharge size:
  2” Series: 2” outlet, threaded 2-11 ½ NPT

ROBUST: Components are made from robust cast iron for long life and easy maintenance
DURABLE: Heavy-duty long life bearings provide peace of mind
SMOOTH: The double mechanical seal provides extra reliability and protects against leakage*
INSTALLATION OPTIONS: Pump has built-in dual seal and sensors for high temperature and seal leak detection which accommodate upgraded panel installations*

* Upgraded installation required for seal leak detection

FEATURES

SELF-CLEANING: The patented design of the self-cleaning K-impeller has been proven to reduce clogging and maintain efficiency when pumping wastewater
SOLIDS HANDLING: The vortex impeller can handle solids up to 2” in size and resists clogging better than a traditional two-vane impeller
POWERFUL: An efficient air-filled motor provides built-in thermal overload protection allowing the pump to run continuously without overheating

• Insulation: Class F: 310° F (155° C)
• Maximum Fluid Temperature: 104° F (40° C)
• Phase: Three-phase
• Frequency: 60 Hz
• Impeller:
  BFK Series: Self-cleaning K-impeller
  BFV Series: Vortex impeller
• Motor: Air-filled 3400 rpm motor with built-in thermal overload protection
• Bearings: Single row ball bearings
• Upper-Lower Seal Configurations (configurations vary by model):
  - Carbon/Aluminum Oxide - SilCar/SilCar
  - Carbon/Aluminum Oxide - Aluminum Oxide/WCCR
• Cable Length: 50 ft (16 m) power cord

AGENCY LISTINGS

Tested to UL 778 and CSA 22.2 108 standards by Canadian Standards Association

Upgraded installation requires MiniCAS module in control panel.
# PRODUCT SPECIFICATIONS

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<th>B&amp;G Part No.</th>
<th>HP</th>
<th>Phase</th>
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PERFORMANCE CURVES

2" BFV 1.2 HP - F

TOTAL DYNAMIC HEAD

Pump Efficiency
Overal Efficiency

Power Input P1
Shaft Power P2

Eff.
29.4%

V94 78 mm

CAPACITY (US GPM)

Wastewater
PERFORMANCE CURVES

2" BFV 1.7 HP - E

[Graph showing performance curves with axes labeled as follows:
- Capacity (US GPM)
- Total Dynamic Head (ft)
- Pump Efficiency (%)
- Overall Efficiency (%)
- Power Input P1 (hp)
- Shaft Power P2 (hp)
- V92 90 mm (P1)
- V92 90 mm (P2)
- V92 90 mm]
PERFORMANCE CURVES

2” BFV 3.2 HP - K

[ft]
TOTAL DYNAMIC HEAD

[hp]
Power Input P1
Shaft Power P2

[%]
Pump Efficiency
Overall Efficiency

26%
PERFORMANCE CURVES

2" BFV 3.8 HP - J

TOTAL DYNAMIC HEAD

Pump Efficiency
Overall Efficiency

Power Input P1
Shaft Power P2

[ft]

[hp]

[\%]

V92 118 mm
V92 118 mm (P1)
V92 118 mm (P2)

34.2% Eff.

CAPACITY (US GPM)
PERFORMANCE CURVES

2” BFK 1.2 HP - D

[ft] TOTAL DYNAMIC HEAD

[hp] Power Input P1
     Shaft Power P2

[Pump Efficiency]
[Overall Efficiency]

[Eff.]
[42.6%]

[S68 87 mm]

CAPACITY (US GPM)
PERFORMANCE CURVES

2” BFK 2.4 HP - H

![Graph showing performance curves for a pump with various parameters including capacity (US GPM), total dynamic head, pump efficiency, overall efficiency, power input (hp), shaft power (hp), and efficiency (%). The graph includes curves for different model numbers such as S66 107 mm and S66 107 mm (P1), S66 107 mm (P2).]
PERFORMANCE CURVES

2” BFK 3.2 HP - G

[Diagram showing performance curves for a pump with capacity and total dynamic head on the x-axis and power input and pump efficiency on the y-axis.]

Pump Efficiency
Overall Efficiency
P64 120 mm
P64 120 mm

Power Input P1
Shaft Power P2

Eff. 58%

0 40 80 120 160 200 240 280
CAPACITY (US GPM)

[ft]
72 68 64 60 56 52 48 44 40 36 32 28 24 20 16 12 8 4 0

[hp]
3.4 3.2 3.0 2.8 2.6 2.4 2.2 2.0 1.8 1.6

[ft]
72 68 64 60 56 52 48 44 40 36 32 28 24 20 16 12 8 4 0

[%]
0 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64 68 72

P64 120 mm (P1)
P64 120 mm (P2)
2" DIMENSIONS

**2BFV12, 2BFV17**
- A = 18.31”
- B = 11.77”
- C = 4.57”
- D = 7.21”
- E = 4.06”
- F = 4.49”
- G = 5.51”

**2BFK12, 2BFK17**
- A = 16.46”
- B = 11.73”
- C = 4.57”
- D = 7.17”
- E = 3.82”
- F = 4.69”
- G = 4.76”

**2BFV32, 2BFV38**
- A = 19.80”
- B = 12.21”
- C = 4.72”
- D = 7.48”
- E = 4.53”
- F = 4.92”
- G = 6.50”

**2BFK24, 2BFK32, 2BFK38**
- A = 17.05”
- B = 11.97”
- C = 4.41”
- D = 7.56”
- E = 4.06”
- F = 4.84”
- G = 4.76”
Xylem ['zɪləm]

1) The tissue in plants that brings water upward from the roots;  
2) a leading global water technology company.

We’re a global team unified in a common purpose: creating advanced technology solutions to the world’s water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

For more information on how Xylem can help you, go to www.xyleminc.com