

# Versatile Designs. Proven Performance.

PUMPS, CONTROLS & PRESSURE BOOSTING



# 170 Years of Manufacturing Excellence

Goulds Water Technology, a Xylem brand, is one of the world's leaders in centrifugal and turbine pumps, controllers, variable frequency drives, and accessories for residential, commercial, agricultural and industrial markets and applications. The brand began in 1848 in Seneca Falls, NY when Seabury S. Gould purchased a pump making business. Innovative for its time, the company went on to become the world's first producer of all-metal pumps

With over 170 years of pump experience, Goulds Water Technology combines manufacturing excellence with a total commitment to quality based on full performance testing of every pump we make. Whether you need stainless steel, bronze, or cast iron, multi-stage verticals or horizontals, end suction centrifugals or submersibles, there's a Goulds Water Technology design that's proven itself through years of dependable service.

In addition to the standard pump designs shown here, we offer specialized O.E.M. pumps designed to meet the specifications of your particular needs.

## Xylem Meets or Exceeds the DOE's 2020 Efficiency Standards

The U.S. Department of Energy established DOE 2020 standards, rating the performance of pumps. All of our products meet or exceed the DOE's 2020 efficiency standards. That means you can specify any of them today and be sure they'll be compliant.



## NSF Certified

NSF 61 is a certification for products that come into contact with drinking water. This standard establishes minimum health effects requirements for the chemical contaminants and impurities that are indirectly imparted to drinking water from products, components, and materials used in drinking water systems.

These requirements are based on the EPA and Health Canada requirement.



# Overview of Products

Goulds Water Technology, a Xylem brand, is one of the world's leading brands in residential, commercial, and industrial water products, operating and manufacturing in the USA since 1848. Our wide ranging portfolio of water system pumps and accessories provides value and reliability in a complete solution.

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# Monitoring & Controls

For more than 25 years, we have been providing proven variable speed pump control solutions; starting with the AQUAVAR® variable speed controller. Today, the expanded product line offers a wide range of monitoring and control solutions. Our philosophy has remained unchanged over the years: To provide quality, variety and system solutions for our customers.



**optimize™**



**Aquastart**



**AQUAVAR®  
e-AB2 and e-AB3**



**AQUAVAR® IPC**



**Hydrovar®**

## Monitoring & Controls

### optimize™

Condition monitoring solutions to optimize your bottom line.

Using predictive analysis, optimize identifies potential problems with your critical equipment before they occur, to help customers manage system reliability and maintenance.



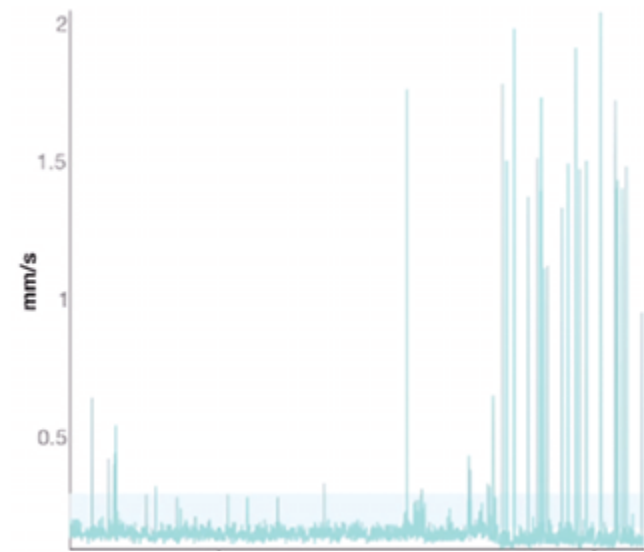
### Applications

- For use on most pumps, motors or rotational equipment within agriculture, commercial buildings, industrial or water utilities applications
- Monitor vibration of pumps and motors
- Monitor temperature of pump bearings and motors

### Features & Benefits

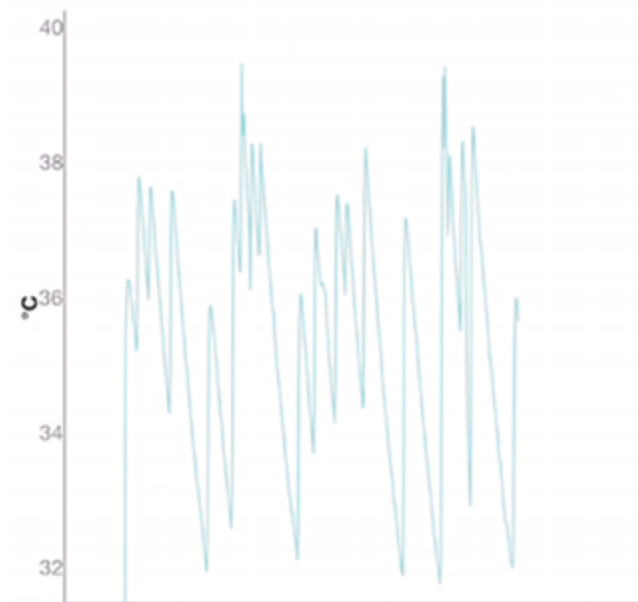
- Condition monitoring of mechanical and electrical assets to enable predictive maintenance
- Asset management including asset location, size and manufacturing date
- Optimized reporting that helps simplify documentation, manage system maintenance and inform purchasing
- Conveniently monitor system conditions on our simple-to-use mobile application
- Remote monitoring via the optimize mobile application, Avensor Smart Monitoring Web application or the optimize Gateway

### Vibration



Date & Time

### Temperature



Date & Time

### Technical Specifications

Surface Temperature Measurement	Vibration Measurement	Power	Wireless Communication
Measurement range -4° F to +275° F (-20° C to +135° C)	Frequency range 5Hz to 1,100Hz	Batteries (replaceable) (2) 3.6V AA, 2400mAh, Lithium	Network type Bluetooth® Low Energy 5.0 <sup>1</sup>
Measurement method Non-contact infrared laser	Measurement method Independent 3-axis	Battery life (using default sampling rate at 25° C) 3-5 years	Connection range (without interference) 100' (30 m)
Minor gradient accuracy (0° C to 25° C gradient) +/- 1° C	Primary output (per axis) Single value RMS	Default sampling rate 1 sample per 30 minutes	<b>Environmental</b>
Moderate gradient accuracy (25° C to 50° C gradient) +/- 2° C	Other outputs Kurtosis and FFT	Available sampling rates (one sample per unit of time) 10 secs to 12 hrs	Ambient operating range -4° F to +122° F (-20° C to +50° C)
Moderate gradient accuracy (50° C to 100° C gradient) +/- 4° C	Vibration limit (max acceleration) 16g		Storage temperature (5 to 95% humidity non-condensing) -13° F to +149° F (-25° C to +65° C)
	Threshold standard Global: ISO 10816-7 North America: ANSI/HSI 9.6.4		Protection rating IP56, NEMA 4

# Aquastart™ Combination Soft Starters



## Applications

Offers enhanced motor and system protection for residential, commercial and industrial pumping applications

## Features & Benefits

- Standard NEMA 4 enclosure: Rugged, outdoor rated panel rated to 131° F without derating the starter.
- Standard, built-in AC1 Run Rated Bypass: Automatically bypasses the soft start controller when motor is up to full amps. Soft Starter is only engaged during start and stop of motor. The works to reduce heat inside the panel.
- Full Diagnostics: In addition to typical electrical protection and diagnostics, the AquaStart™ has a full range of motor protection features such as locked rotor, current imbalance/phase loss, and over/under current. These features require no additional input devices.

## Technical Specifications

Maximum Temperature	Max ambient temp. 131° F (55° C)
Input Voltage	5-175HP @ 230V 10-200HP @ 460V 15-200HP @ 575V

# AQUAVAR® e-AB Series



## Applications

To increase water pressure for customers of municipal water districts when demand is high or pressure is inconsistent, and for those boosting from a storage tank

## Features & Benefits

- Reduces up to 50% of the energy required by a fixed speed pump
- Aquavar® IPC provides intelligent pumping and easier programming with the Start-Up Genie
- Xylem Smart Motor provides ultra-premium efficiency with an IE5 permanent magnet motor
- NEMA 1 and NEMA 3R enclosures expand installation options
- Duplex lead/lag and alternation

## Technical Specifications

NSF 61 Certified	✓
Flow Range	Up to 80 GPM (Up to 18 m³/h)
Maximum Temperature	Max ambient temp. 122° F (50° C) Tank: Max water temp. 120° F (49° C) Pump: Max water temp. 194° F (90° C)
Maximum Pressure	Up to 70 psi (5 bar)

## Package Certifications

- e-AB2 models



UL 778, CAN/CSA  
C22.2 N. 108



Drinking Water  
NSF/ANSI 61 & 372

- e-AB3 models



Packaged Pumping System  
Category QCZJ.



Drinking Water  
NSF/ANSI 61 & 372

# AQUAVAR® IPC



### Applications

For pumps in submersible and groundwater applications

### Features & Benefits

- Two wire multi-pump connection for faster installation
- Multi-pump configuration for up to four (4) pumps - no need for PLC
- Wide range of voltage and enclosure options
- True 208V coverage
- Dedicated single phase input

### Technical Specifications

Maximum Temperature	Max ambient temp. 113° F (45° C)
Input Voltage	2 - 30HP @ 1PH/208 - 240V 1.5 - 60HP @ 3PH/208 - 240V 1.5 - 450HP @ 3PH/380 - 480V 1.5 - 450HP @ 3PH/525 - 600V

### The AQUAVAR IPC in a NEMA 3R Steel Enclosure provides:

- **Protection from the elements** - An enclosed cabinet keeps components out of direct contact with the elements, allowing the AQUAVAR IPC to be used in a broader range of geographical regions and applications.
- **Security and peace of mind to installation site** - A lockable cabinet protects the equipment inside from being easily exposed to damage.
- **Easy programming accessibility** - The panel provides quick and easy access to the Start-Up Genie from the outside of the cabinet.



# HYDROVAR®



### Applications

For pump systems requiring constant pressure, flow control or differential pressure in commercial and municipal applications

### Features & Benefits

- Motor mount to fan cover of TEFC motor for a packaged unit with a small footprint.
- Alternate input: Up to two transducers may be used with each controller. These may be pressure, flow, differential pressure, temperature or other 4 - 20mA signals.
- Remote start/stop via switch input and emergency stop.
- Dry relay contacts available for pump run and fault.
- MODBUS® and BACnet as standard. Optional Wi-Fi card for the flexibility of wireless connection.
- Advanced motor control to reduce heating and extend the lifetime of the motor.

### Technical Specifications

Maximum Temperature	Max ambient temp. 113° F (45° C)
Input Voltage	2 - 5HP @ 1PH/208 - 240V 2 - 15HP @ 3PH/208 - 240V 2 - 30HP @ 3PH/380 - 460V

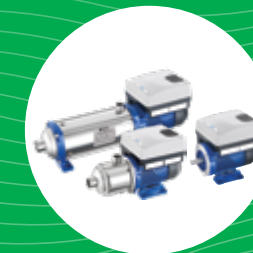


# High Pressure Multistage

High Pressure Multistage solutions are constructed with a variety of materials such as fabricated stainless steel and casted materials with multiple suction and discharge orientations dependent on configuration. These pumps are designed to handle virtually any high-pressure application including filtration, pressure boosting, wash systems, and boiler feed applications.



e-HMX



e-HME



e-HM



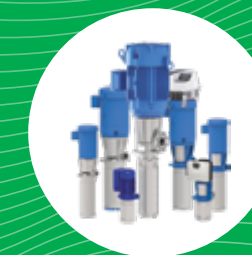
e-SVX



e-SVE



e-SV



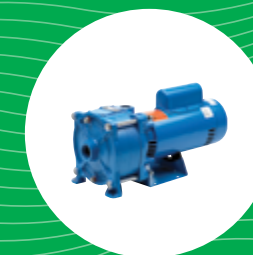
e-SVI



Xylem e-MP



GB and HB



HSC

# High Pressure Multistage

## e-HMX

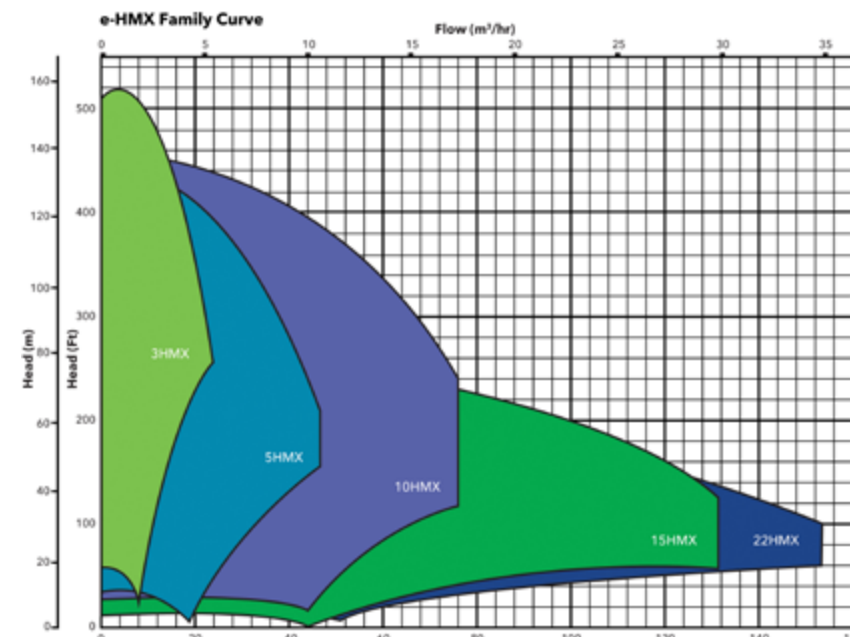


### Applications

- Industrial washing and cleaning
- Food and beverage
- Industrial refrigeration
- Water treatment
- OEM custom applications

### Features & Benefits

- Simple: Built-in application software makes the hydrovar X one of the easiest drives to commission, program and operate, enabling virtually any configuration of pumps.
- Sustainable: No rare earth materials are used to minimize product availability challenges and address environmental concerns while offering smart technology and superior performance.
- Intelligent performance: Advanced system controls (up to 8 pumps) are customizable for a wide range of applications. The IE5 "ultra-premium" hydrovar X smart motor provides one of the broadest efficiency ranges in the industry.
- Ease of installation and maintenance: Integrated pump and hydrovar X motor design eliminates the need for additional wiring, labor and associated costs.
- Built-in protections: Integrated functions provide protection for the pump and motor while optimizing performance.
- Easy service: VFD and/or motor can be easily replaced individually, minimizing downtime and expensive repair.
- Compact motor design: hydrovar X motors offer higher performance with a reduced footprint when compared to Aquavar IPC solutions. Increased performance reduces electricity consumption and lowers life cycle costs.

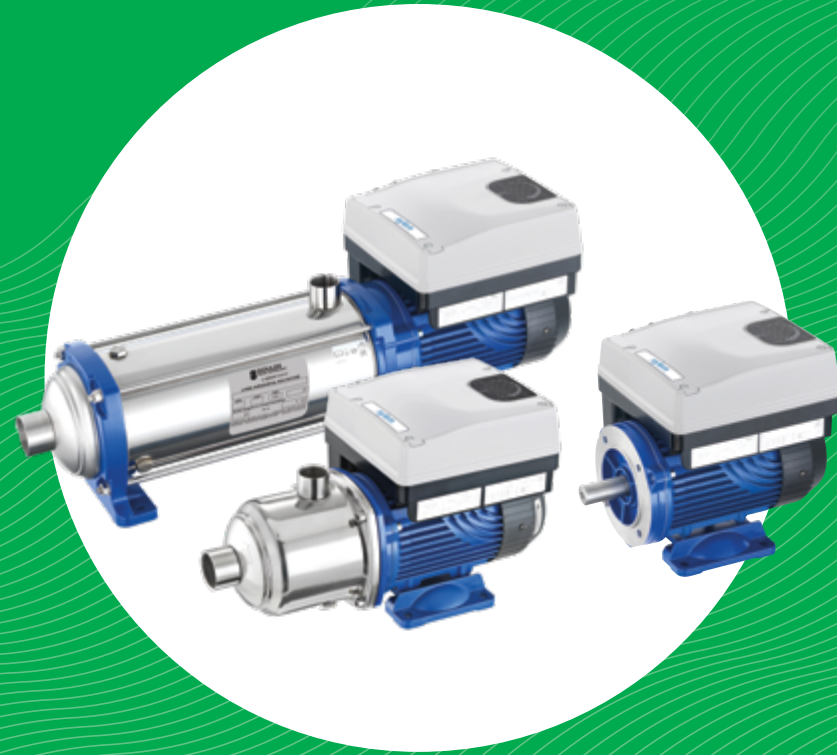


### Technical Specifications

NSF 61 Certified	✓
Flow Range	up to 150 GPM (34 m³/h)
Maximum Head	up to 509 ft (155 m)
Maximum Temperature	20°F to 248°F (-30°C to 120°C)
Maximum Pressure	230 psi (16 bar)
Ambient Temperature	-4°F to 122°F (-20°C to 50°C)

## High Pressure Multistage

### e-HME

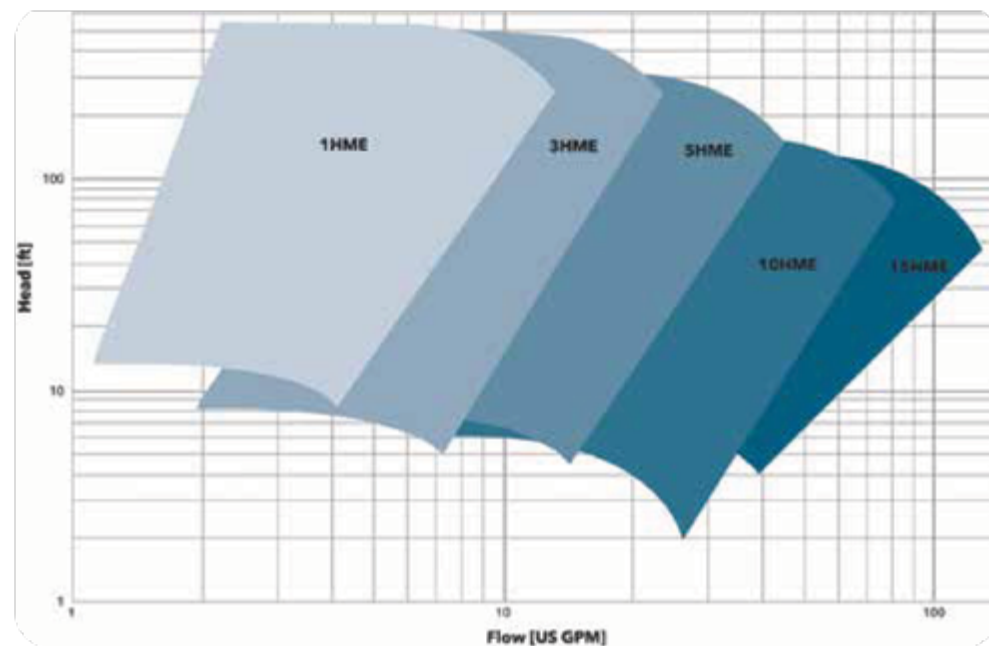


#### Applications

- Pressure boosting and water supply systems
- Industrial washing and cleaning
- Circulation of hot and cold liquids for heating, cooling and conditioning systems
- Water treatment

#### Features & Benefits

- Features the Xylem Smart Motor an “ultra-premium” IE5 permanent, magnet motor, providing efficiency well above a standard IE3 NEMA premium efficient asynchronous motor
- Thick stainless steel casing, high-quality bearings, and stainless steel inner components minimize noise and guarantee long service life
- Certified for drinking water use (certified to the NSF/ANSI 61 Drinking Water System Components Standard)
- Options include AISI 304 or 316 pump body and inner components, electropolished and passivated, and mechanical seal or O-rings



#### Technical Specifications

NSF 61 Certified	✓
Flow Range	130 GPM (29 m <sup>3</sup> /h)
Maximum Head (ft.)	540' (235 m)
Maximum Temperature	250° F (120° C)
Maximum Pressure	Compact pump designs: up to 145 psi (up to 10 bar) Sleeve pump designs: up to 230 psi (up to 16 bar)
Input Voltage	0.5 - 3 HP (0.37 - 2.2 kW)

# High Pressure Multistage

## e-HM

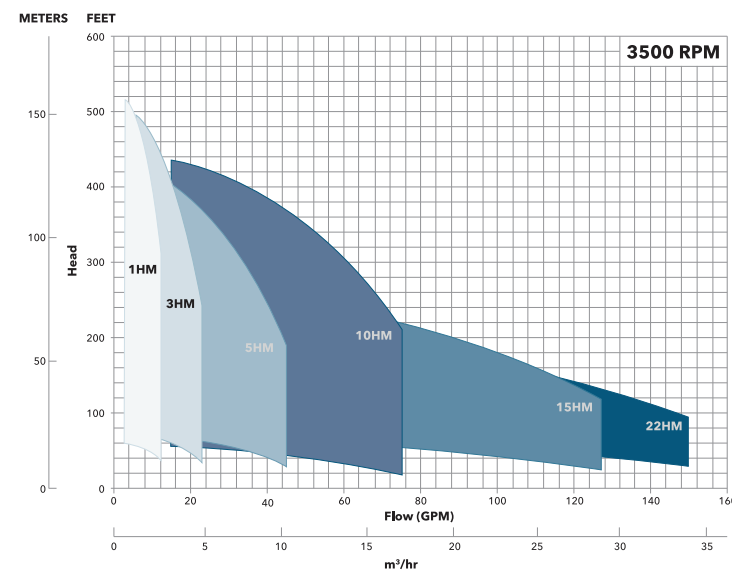


### Applications

- Pressure boosting and water supply systems
- Industrial washing and cleaning
- Car wash
- Water treatment
- Circulation of hot and cold liquids in cooling and conditioning systems

### Features & Benefits

- Up to 15% more efficient: The e-HM is based on the innovative platform and market-proven hydraulics of our e-SV vertical multi-stage pumps, delivering energy efficiency that outperforms the competition by up to 15%.
- Powerful versatility: Offering two different mechanical configurations, 7 mechanical seal options, high-efficiency motors, and surface treatment options such as passivation, make the e-HM suitable for multiple applications.
- Compact and durable design: The smaller motor and space-saving design lets the e-HM fit where you need it. The balanced impeller reduces axial thrust by 40%, extending motor bearing life. A 20% thicker pump body enhances durability, increasing reliability.



### Agency listing for e-HM configurations

- Single-phase up to 2 HP and three-phase models up to 3 HP



Tested to UL778 CAN 22.2 by CSA International (Canadian Standards Association)

### Technical Specifications

NSF 61 Certified	✓
Flow Range	127 GPM (34 m³/h)
Maximum Head	525' (157 m)
Maximum Temperature	248° F (120° C)
Maximum Pressure	230 psi (16 bar)

# High Pressure Multistage

## e-SVX

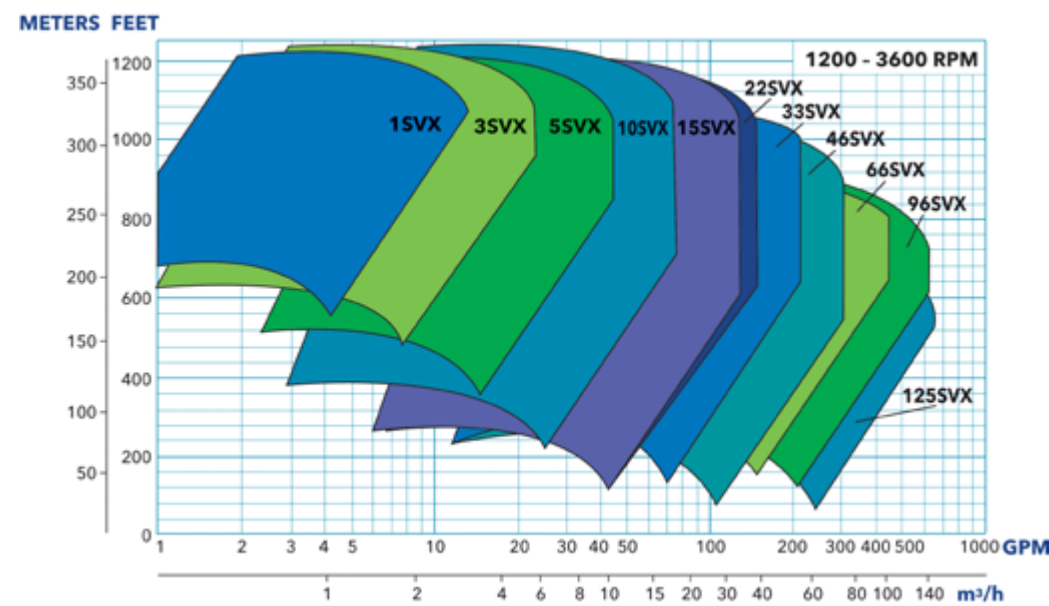


### Applications

- Residential
- Light commercial
- Industrial
- Agricultural
- OEM water supply
- HVAC applications

### Features & Benefits

- Simple: Built-in application software makes the drive one of the easiest to commission, program and operate, enabling virtually any configuration of pumps.
- Sustainable: hydrovar X is a smarter green technology solution. No rare earth materials are used to minimize product availability challenges and address environmental concerns while offering smart technology and superior performance with a "green heart".
- Intelligent performance: Advanced system controls (up to 8 pumps) are customizable for a wide range of applications. The IE5 "ultra-premium" hydrovar X smart motor provides one of the broadest efficiency ranges in the industry.
- Ease of installation & maintenance: Integrated pump and hydrovar X motor design eliminates the need for additional wiring, labor and associated costs.
- Built-in protections: Integrated functions provide protection for the pump and motor while optimizing performance.



### Technical Specifications

NSF 61 Certified	✓
Flow Range	up to 640 GPM (145 m <sup>3</sup> /h)
Maximum Head	up to 1200 ft (366 m)
Maximum Temperature	-20°F to 250°F (-30°C to 121°C)
Maximum Pressure	580 psi (40 bar)
Ambient Temperature	-4°F to 122°F (-20°C to 50°C)

# High Pressure Multistage

## e-SVE

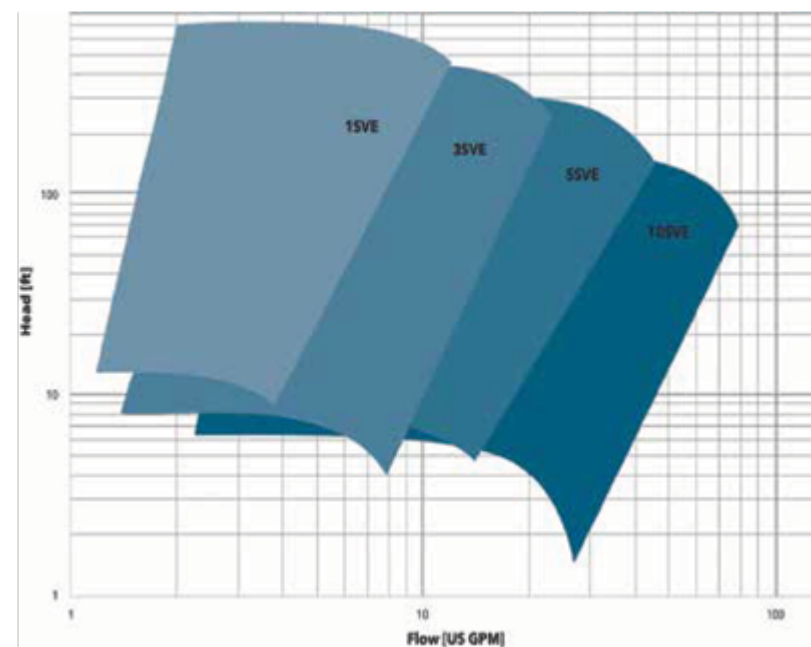


### Applications

- Water utilities
- Commercial building services
- General industry
- Power generation
- Agriculture
- OEM industrial

### Features & Benefits

- Features the Xylem Smart Motor an “ultra-premium” IE5 permanent, magnet motor, providing efficiency well above a standard IE3 an asynchronous motor
- Six e-SVE pump ranges are available with multiple construction designs offer flexibility for a wide list of applications, including residential and light commercial, OEM applications and HVAC
- A variety of connections (threaded, round, clam and oval flanges, Victaulic) configured vertically; ports can be on the same side to save space
- Designed for fast, easy maintenance with a balanced mechanical seal, an O-ring seat design and a replaceable diffuser wear ring



### Technical Specifications

NSF 61 Certified	✓
Flow Range	85 GPM (19 m <sup>3</sup> /h)
Maximum Head	710' (215 m)
Maximum Temperature	250° F (120° C)
Maximum Pressure	SV1-10 with oval flanges: 230 psi (16 bar) SV1-10 with round flanges or Victaulic: 360 or 575 psi (25 or 40 bar)
Input Voltage	0.5 - 3 HP (0.37 - 2.2 kW)

# High Pressure Multistage

## e-SV

The e-SV fabricated vertical multi-stage pump is an energy saving, non-priming pump coupled to a standard premium-efficient motor. It's built to withstand a variety of, mechanically aggressive and high temperature liquids, and is designed to extend uptime and help reduce lifecycle costs in a wide range of demanding applications.

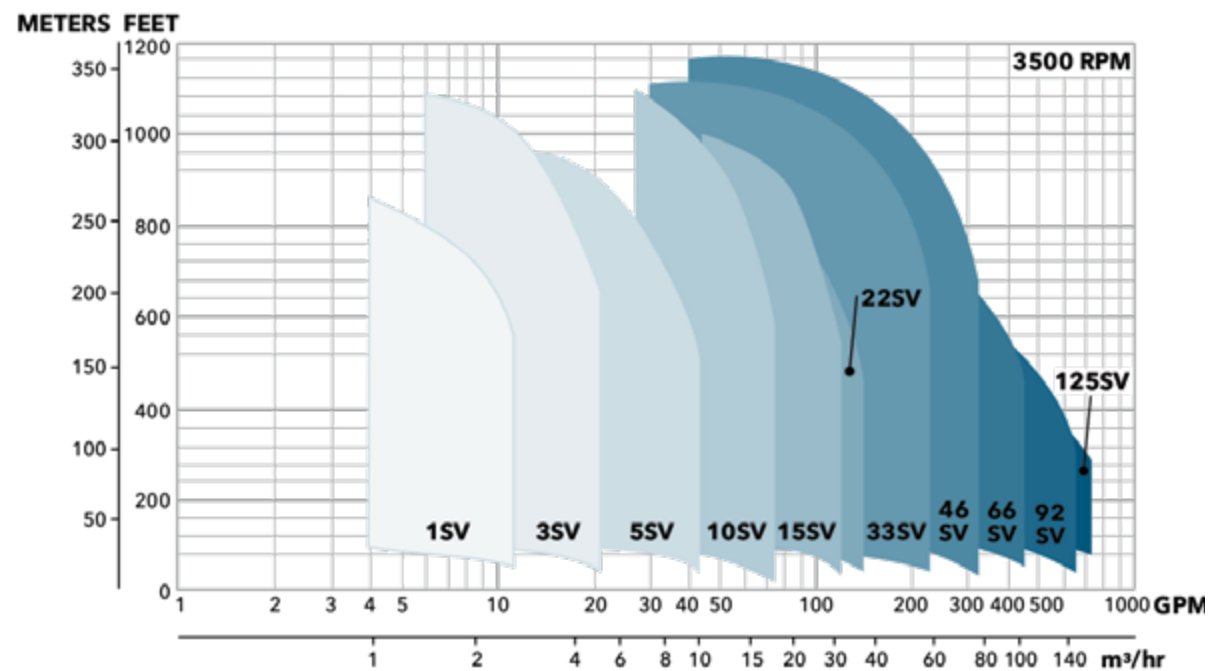


### Applications

- Pressure booster systems (plants, buildings/hotels, residential complexes)
- Commercial washers
- Water transport
- Potable water
- Washing and cleaning systems
- Large vehicle washing system
- Ultra-filtration systems
- Filtration
- Reverse osmosis systems
- Booster packages
- Firefighting system jockey pumps

### Features & Benefits

- The expanded hydraulic coverage of an e-SV pump combined with a NEMA premium-efficient motor delivers maximum performance
- The extended e-SV portfolio allows you to select a pump aligned with your application's optimum duty point
- A variable speed drive such as HYDROVAR® or AQUAVAR® IPC increases a e-SV's energy savings up to 70% vs. fixed speed
- Standard models offer low NPSH, with even lower NPSH models available
- e-SV pumps are available in horizontal and vertical configurations
- The pump can be easily repaired right in the piping



### Technical Specifications

NSF 61 Certified	✓
Flow Range	725 GPM (160 m³/h)
Maximum Head	1200' (330 m)
Maximum Temperature	248° F (120° C)
Maximum Pressure	580 psi (40 bar)

# High Pressure Multistage

## e-SVI

The e-SVI takes reliability and performance to new depths with its efficient, high-performance pumping package, comprised of an energy saving, vertical multistage pump coupled to a NEMA premium-efficient motor.

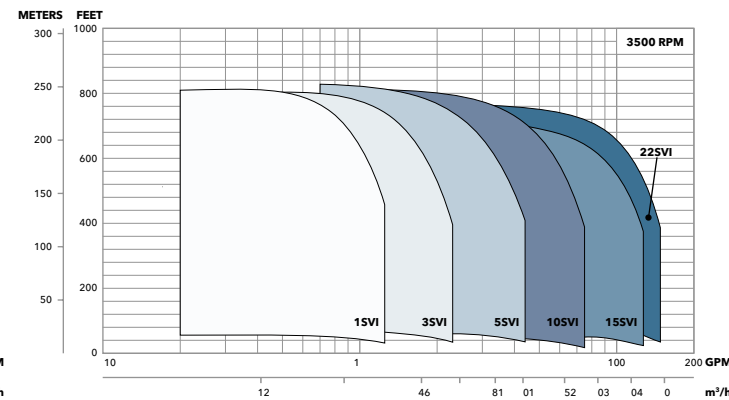
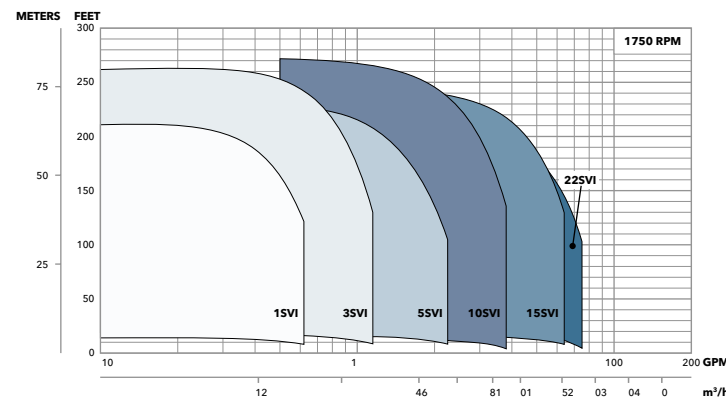


### Applications

- Cooling and tool lubrication circuits
- Cooling systems
- Machine cooling
- Process temperature control
- Industrial washing systems
- Pressurization of clean liquids
- Transfer of condensation
- Filtering systems (reverse osmosis)
- Heat exchange
- Washing and cleaning systems
- Electronics circuit washing
- Commercial washing machines

### Features & Benefits

- The e-SVI can be built with a variable number of impellers, to cover a wide range of duty points
- Xylem HYDROVAR® drives and ultra-premium efficient Smart Motors are available, to further improve the performance of the system
- The e-SVI is an interchangeable drop-in replacement for pumps with 1.25" or 2" NPT threaded fittings
- An assortment of mechanical seals and materials are available, which are designed to handle a wide range of temperatures, pressures and aggressive liquids with ease



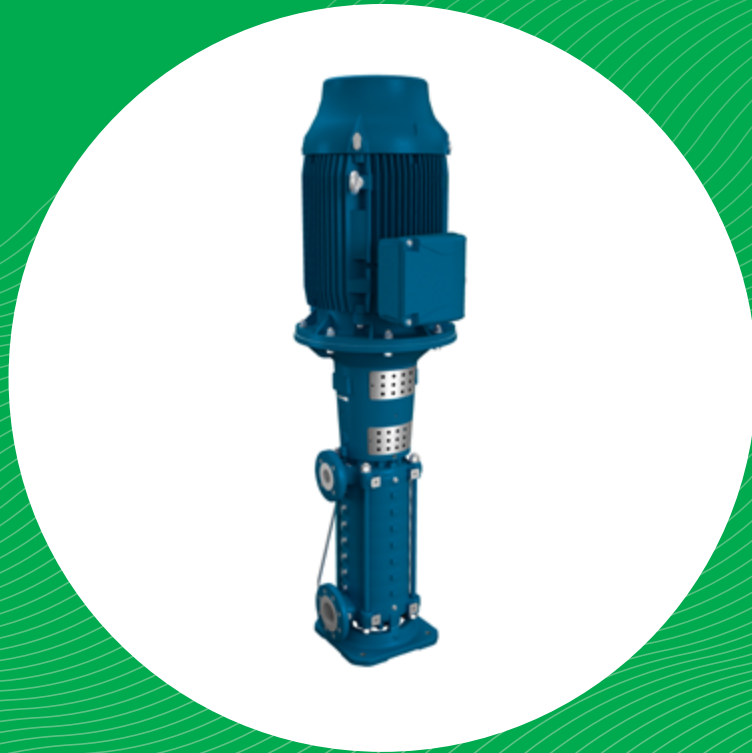
### Technical Specifications

NSF 61 Certified	✗
Flow Range	625 gpm (144 m³/h)
Maximum Head	830 ft (260 m)
Maximum Temperature	Coupled Version: 14°F to 194°F (-10°C to 90°C) Close-Coupled Version: 14°F to 140°F (-10°C to 60°C)
Maximum Pressure	.75" NPT for sizes 1-3-5 close-coupled (compact): up to 145 psi (10 bar) 1.25" or 2" NPT for sizes 1-22 coupled: up to 362 psi (25 bar) 2.5" and 3" flange discharge connections for sizes 33-92 coupled: up to 435 psi (30 bar)

## High Pressure Multistage

# Xylem e-MP

e-MP multistage pumps get the job done in nearly any high-pressure application - with lower lifecycle costs, lower energy usage, long-term dependability and the versatility to handle a wide range of applications.



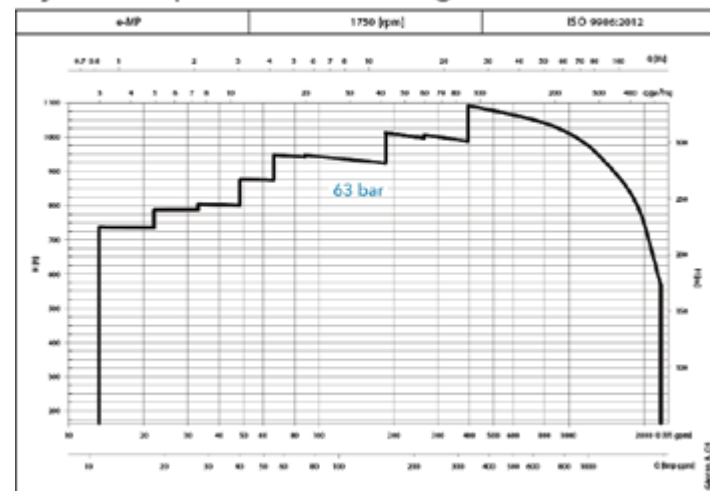
### Applications

- Potable water boosting
- Water supply/transport/treatment
- Desalinization systems
- Oil condensate pumping
- Washing and cleaning systems
- Boiler Feed
- Snow making
- Reverse osmosis systems
- Filter systems
- Washdown

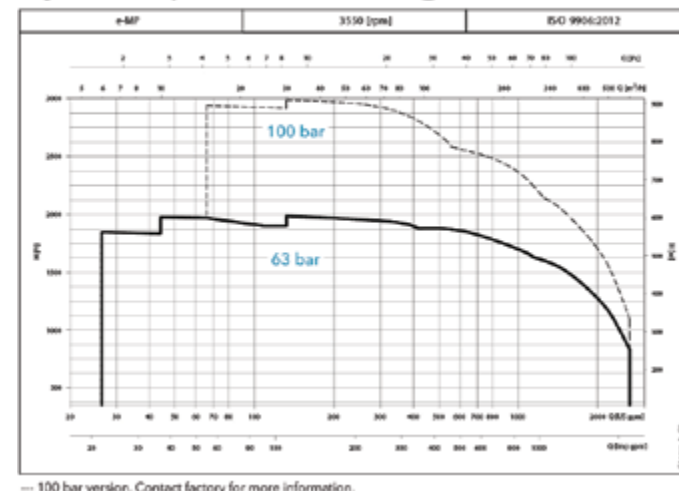
### Features & Benefits

- High suction capabilities provided by the e-MP's suction impeller ensures an NPSHR of less than 20 feet in most applications.
- The pump design allows access to the drive side bearing, the mechanical seal, and the balancing drum system without having to disassemble the pump from the piping enabling easier repairs in the field.
- Modular design minimizes the number of parts required and simplifies inventory management.
- The salient rounded edges of the U-turn channels in each stage casing ensure a balanced velocity allocation of the liquid being pumped, reducing losses, and increasing hydraulic efficiency from one stage to the next.
- High hydraulic efficiency and advanced channels configuration provide constant cross section and constant fluid speed inside the hydraulic, to create an ideal flow of pumped liquid from stage to stage.
- Angular bearings on discharge side enabling the pump to withstand higher leads, reduced friction, and improved efficiency

Hydraulic performance range at 60 Hz, 4-Poles



Hydraulic performance range at 60 Hz, 2-Poles



### Technical Specifications

NSF 61 Certified	MPD and MPV
Flow Range	2600 GPM (590 M3/H)
Maximum Head	2100' (640 m)
Maximum Temperature	284° F (140° C)
Maximum Pressure	1450 psi (100 bar)



The e-MP & e-MPV stainless steel pump versions meet NSF/ANSI 61 and 372 certification standards.



## GB and HB

### Applications

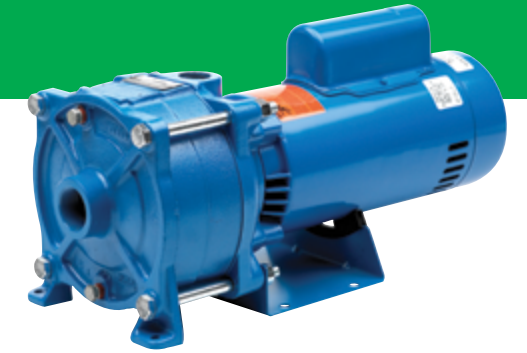
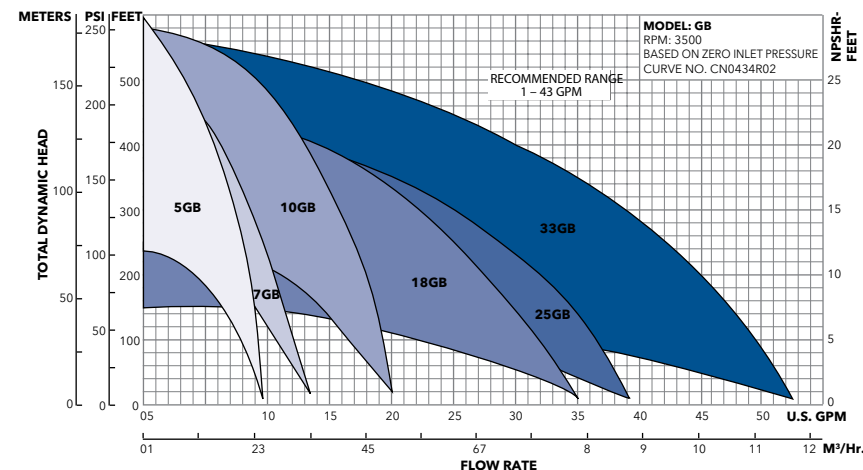
- Residential, commercial or agricultural pressure wash
- Reverse osmosis
- Evaporative cooling systems/misters
- Booster service
- Spray systems
- Water circulation
- Filtration
- HVAC
- General purpose pumping

### Features & Benefits

- Multi-stage design: Provides steady, quiet, vibration free, operation
- Optional stainless steel construction: Standard cast iron for general service or stainless for filtration applications
- O-ring casing seal: Reliable high pressure sealing with easy disassembly for maintenance or repair
- Impellers and diffusers: Glass filled engineered composite material with floating impeller design and high resistance to corrosion and abrasion
- Mechanical seal: A variety of face materials and elastomers to match application needs

### Technical Specifications

NSF 61 Certified	✗
Flow Range	43 GPM (10 m <sup>3</sup> /h)
Maximum Head	600' (232 m)
Maximum Temperature	160° F (71° C)
Maximum Pressure	260 psi (17 bar)



## HSC

### Applications

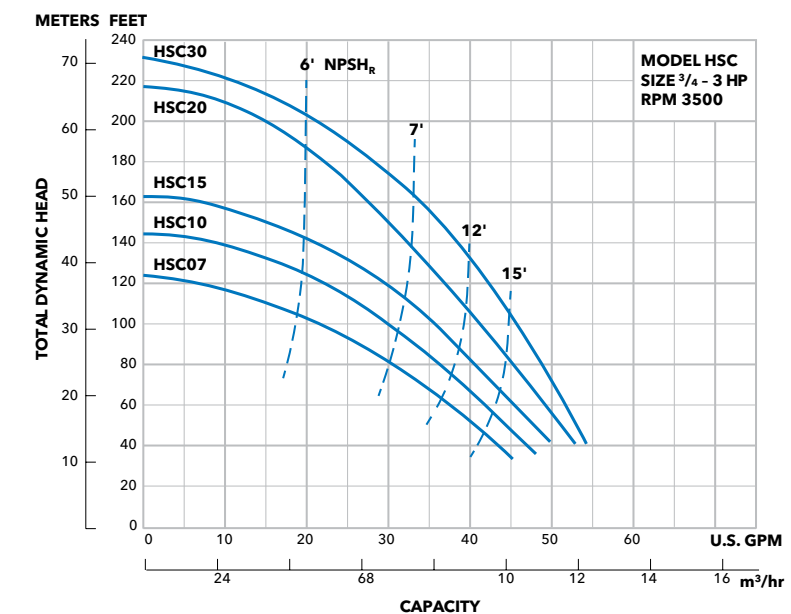
- General purpose pumping
- Water circulation
- Booster service
- Liquid transfer
- Spraying systems
- Jockey pump service

### Features & Benefits

- Multi-stage design: Provides steady, quiet and vibration-free operation for years of trouble-free service
- Compact design: Close-coupled, space saving design provides easy installation; flexible coupling and bedplate not required
- Easy to service: Can be taken apart for service by removing four bolts

### Technical Specifications

NSF 61 Certified	✗
Flow Range	50 GPM (11 m <sup>3</sup> /h)
Maximum Head	230' (70 m)
Maximum Temperature	180° F (82° C)
Maximum Pressure	125 psi (8 bar)





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# Pressure Booster Packages

Our pre-configured variable and constant-speed pressure booster packages provide maximum value, proven reliability, superior energy efficiency and better system protection in one solution.



**AquaBoost  
Advanced**



**AQUAFORCE®  
e-MT**



**e-HVX/e-HVXR**

# AquaBoost Advanced



## Applications

- Commercial building services
- Condominiums and apartments
- Hospitals
- Schools
- Hotels, inns and resorts

## Features & Benefits

- Pre-engineered, factory assembled packaged booster system
- Easier start-up and programming with Start-Up Genie
- Available configurations:
  - Simplex - 20 to 110 GPM (boost up to 55 psig)
  - Duplex - up to 220 GPM (boost up to 55 psig)
  - Standard TEFC Premium Efficiency Motors
  - 208-230V, 380V, 460V, and 575V models available
- UL listed as packaged pumping systems
- Certified ANSI/NSF-61

## Technical Specifications

NSF 61 Certified	✓
Flow Range	Simplex: 110 GPM (25 m <sup>3</sup> /h) Duplex: 220 GPM (50 m <sup>3</sup> /h)
Maximum Temperature	104° F (40° C)
Maximum Pressure	55 psi (4 bar)

# AQUAFORCE® e-MT



## Applications

- Industrial and plant
- Rural water
- Municipal
- Commercial buildings

## Features & Benefits

- Complete package with pumps, drives and controls
- 10" full color touchscreen user interface
- Multiple pump styles available; e-SV vertical multistage, or NPE or e-SH single stage end suction
- ANSI/NSF-61/stainless steel components
- Small footprint overall (fits through a 36" door in most cases)
- Municipal and commercial building clean water pressure boosting applications

## Technical Specifications

NSF 61 Certified	✓
Flow Range	2100+ GPM (477+ m <sup>3</sup> /h)
Maximum Pressure	300 psi (21 bar)

# Pressure Booster Packages

## e-HVX/e-HVXR\*

\*The e-HVXR features a compact mechanical footprint with suction and discharge manifolds mounted on the same side of the package.



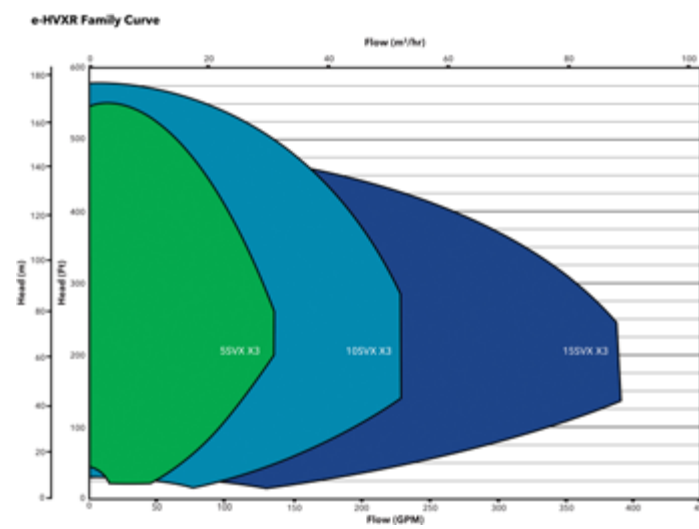
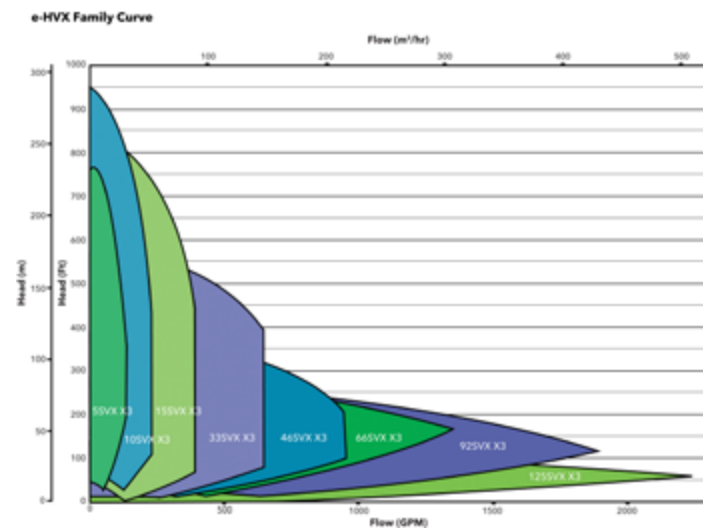
### Applications

A turnkey solution for multi-pump, variable speed applications

- Residential
- Light commercial
- Industrial
- Agricultural
- OEM water supply

### Features & Benefits

- Simple: Built-in application software makes the drive one of the easiest to commission, program and operate, enabling virtually any configuration of pumps.
- Sustainable: No rare earth materials are used to minimize product availability challenges and address environmental concerns while offering smart technology and superior performance.
- Intelligent performance: Advanced system controls are customizable for a wide range of applications. The IE5 “ultra-premium” hydrovar X smart motor provides one of the broadest efficiency ranges in the industry.
- Reliable: Multi-master control functionality ensures that in the event of a fault or failure within one or more pumps in a package, that the system will continue to operate until corrective action can be taken.
- Built-in protections: Integral system intelligence provides electrical and mechanical protection.
- Condition monitoring: Each booster system is fitted with Xylem’s optimize<sup>®</sup> sensors to monitor the health of the pumps. Using predictive analysis, optimize identifies potential problems with equipment before they occur, to help manage system reliability and maintenance.
- Compact design: The new e-HVXR features a reduced package footprint relative to legacy e-HV systems and competitive products, allowing for space savings up to 30% due to the orientation of the suction and discharge manifolds.
- Easy service: VFD and/or motor can be easily replaced individually, minimizing downtime and expensive repair.



### Technical Specifications

NSF 61 Certified	✓
Flow Range	up to 2100 GPM (477 m <sup>3</sup> /h)
Maximum Head	up to 880 ft (268 m)
Maximum Temperature	-32°F to 180 °F (-35°C to / 82°C)
Maximum Pressure	380 psi (26 bar)
Ambient Temperature	-4°F to 122°F (-20°C to 50°C)



# Single Stage End Suction

Our single stage end suction pumps are available in a wide range of sizes, materials, mounting options, and configurations. The compact designs are multipurpose, cost-effective, save space and are easy to maintain.



Prime Line SP



3642/3742



3656/3756  
M&L-Group



3656/3756  
S-Group



3657/3757



ICS/ICS-F



e-SHX



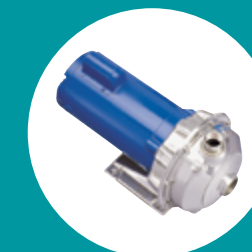
e-SH



MCC



MCS



NPE

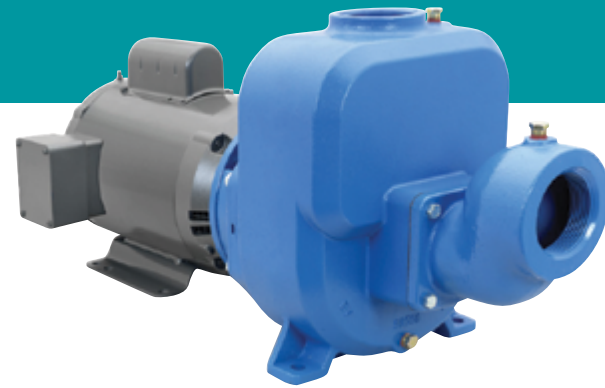


NPO



LB

## Prime Line SP



### Applications

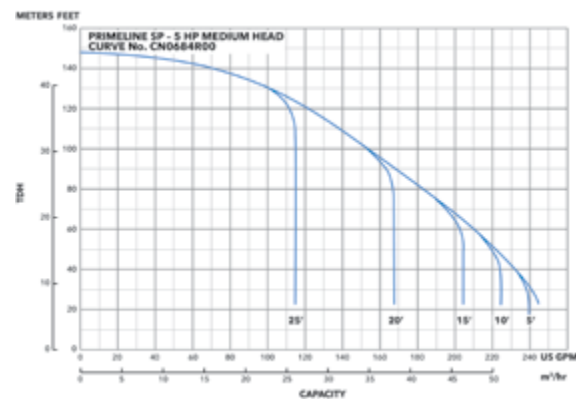
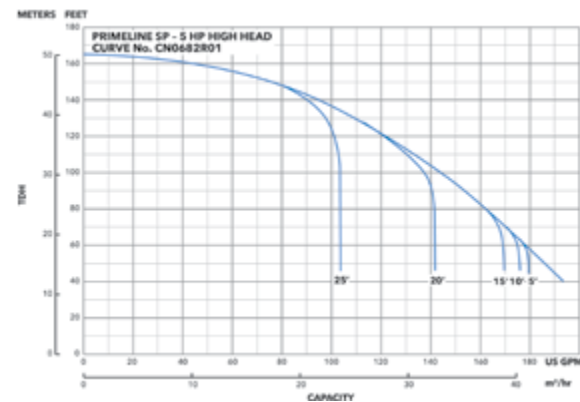
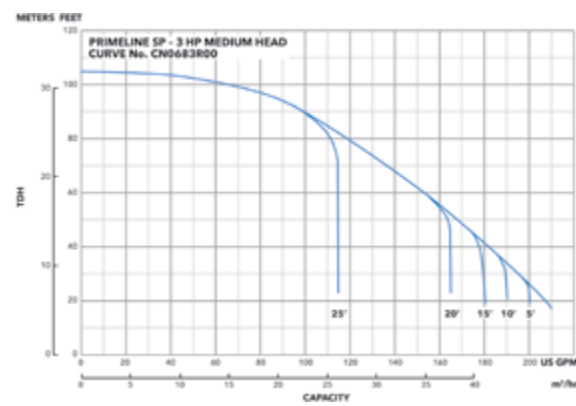
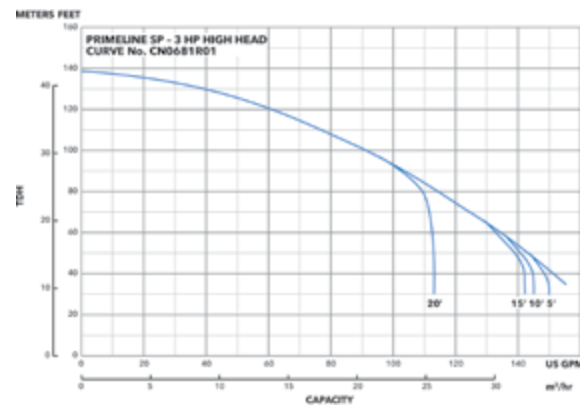
- Lawn irrigation
- Dewatering
- Liquid transfer

### Features & Benefits

- Casing and diffuser: Cast iron construction, featuring a back pull-out design with tapped connections provided for casing fill and drain, simplify pump start up and removal at the end of the season
- Mechanical seal: Constructed of carbon/ceramic faces, BUNA elastomers and 300 series stainless steel metal parts

### Technical Specifications

NSF 61 Certified	✓
Flow Range	40 - 240 GPM (9 - 55 m <sup>3</sup> /h)
Maximum Head (ft.)	165' (50 m)
Maximum Temperature	160° F (71° C)



## 3642/3742



### Applications

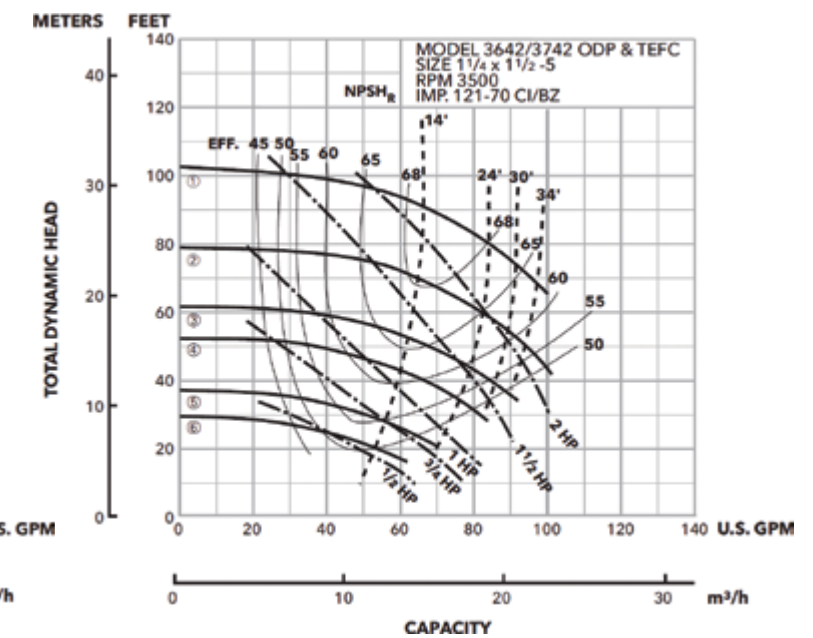
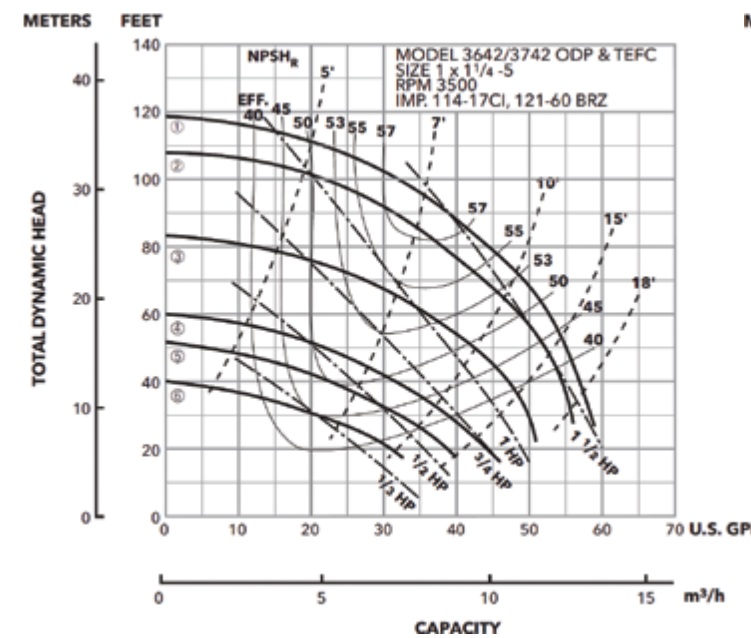
- Water circulation
- Liquid transfer
- General purpose pumping
- Booster service
- Jockey pump service

### Features & Benefits

- Vertical or horizontal mounting capabilities
- Standard carbon/ceramic faced mechanical seal with BUNA elastomers, 300 series stainless steel components and optional seals available
- Motor is a close-coupled design with ball bearings that carry all radial/axial thrust loads, designed for continuous operation

### Technical Specifications

NSF 61 Certified	✗
Flow Range	9 - 110 GPM (2 - 25 m <sup>3</sup> /h)
Maximum Head	118' (36 m)
Maximum Temperature	250° F (121° C)
Maximum Pressure	125 psi (9 bar)



## 3656/3756 M&L-Group



### Applications

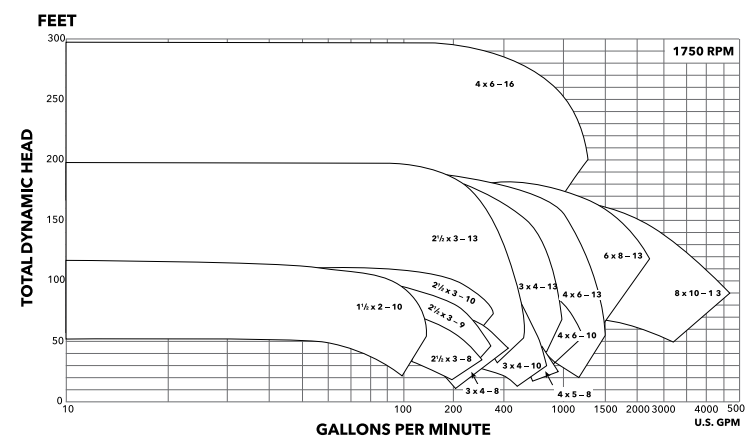
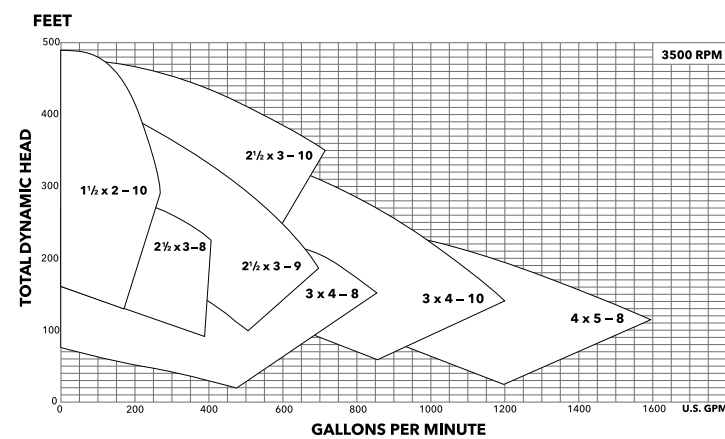
- Booster service
- Spraying systems
- Irrigation
- Water circulation
- General purpose pumping

### Features & Benefits

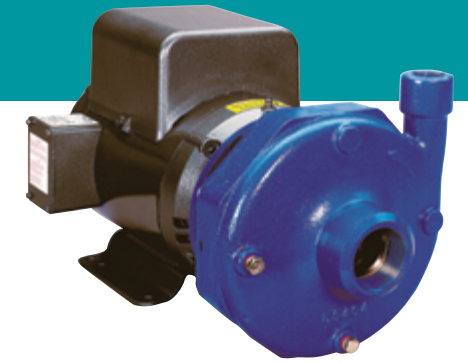
- Rubber bellows seal for both reliability and availability, with carbon/ceramic/BUNA standard and other faces and elastomers available
- Available in all iron or bronze fitted construction for application versatility
- 125 lb ANSI flange suction/discharge connections and casing rotation for piping connection versatility
- Optional rigid carbon steel bedplate, sheet metal coupling guard and T. B. Woods spacer coupling for 3756 models

### Technical Specifications

NSF 61 Certified	✓
Flow Range	9 - 450 GPM (2 - 102 m <sup>3</sup> /h)
Maximum Head (ft.)	490' (149 m)
Maximum Temperature	250° F (121° C)
Maximum Pressure	200 psi (1379 kPa)



## 3656/3756 S-Group



### Applications

- Booster service
- Spraying systems
- Irrigation
- Water circulation
- General purpose pumping

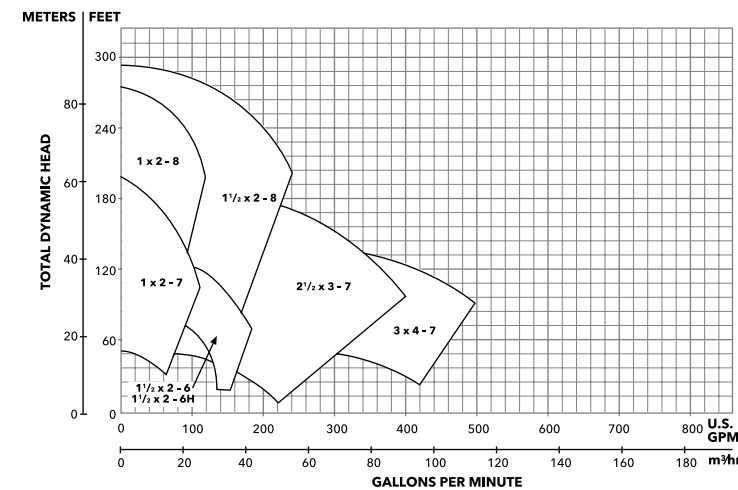
### Features & Benefits

- The model 3756 offers a bearing frame mounted design for flexibility of installation and drive arrangements
- Rubber bellows seal for both reliability and availability, with carbon/ceramic/BUNA standard and other faces and elastomers available
- 3656/3756 available in all iron, bronze fitted or all bronze construction for application versatility
- Suction and discharge pipe connections are NPT threaded, except 3 x 4 7 which has 125 lb. ANSI flat faced flanges

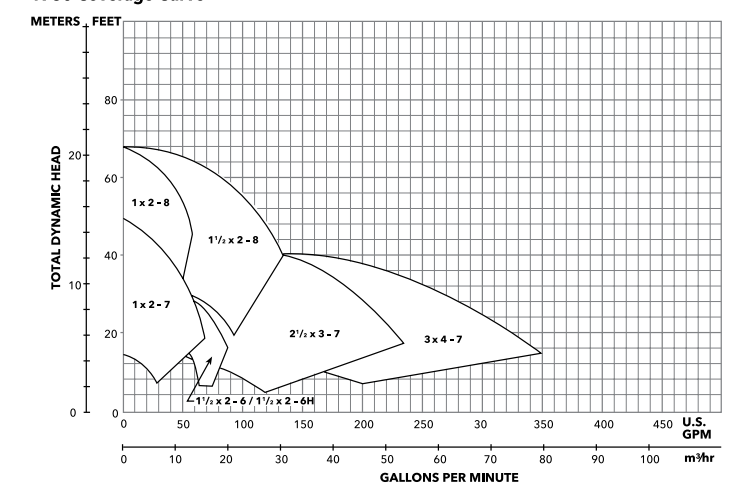
### Technical Specifications

NSF 61 Certified	✓
Flow Range	9 - 550 GPM (0.5 - 35 L/S)
Maximum Head	280' (85 m)
Maximum Temperature	250° F (121° C)
Maximum Pressure	175 psi (1207 kPa)

3500 Coverage Curve

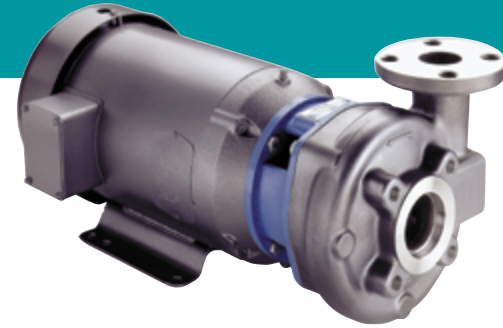


1750 Coverage Curve



# Single Stage End Suction

## 3657/3757



### Applications

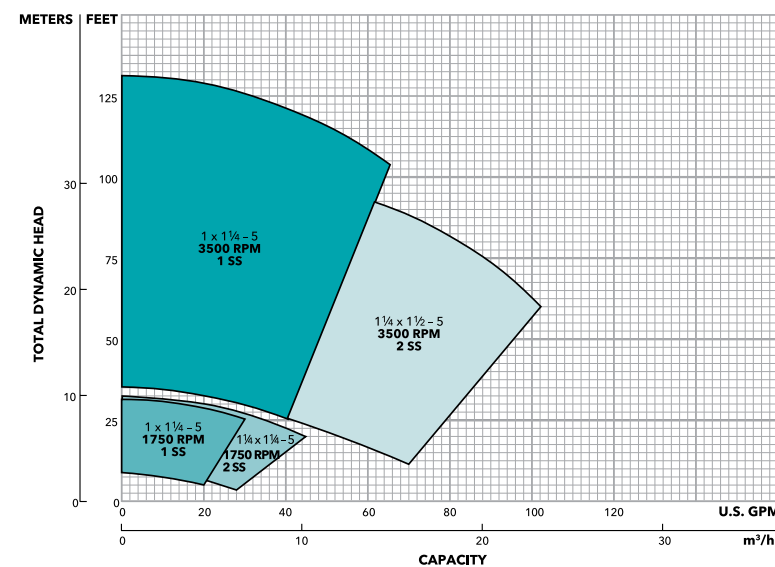
- Pure water feed or transfer
- Chemical feed or transfer
- Water reclamation and treatment

### Features & Benefits

- Casing features: Investment cast AISI type 316 stainless steel, volute design for maximum efficiency. Vertical discharge standard, field modifiable to four standard positions.
- Mechanical seals: Standard John Crane Type 21 seal with carbon versus ceramic faces, Viton elastomers and 316 stainless steel metal components. Options are available for high temperature and mild abrasives.
- Drive motors: NEMA standard JM frame (close coupled) or T frame (frame mounted) are available in both single and three phase with a variety of enclosures and voltages to match your service requirements.

### Technical Specifications

NSF 61 Certified	✓
Flow Range	5 - 500 GPM (1 - 114 m <sup>3</sup> /h)
Maximum Head	300' (91 m)
Maximum Temperature	250° F (121° C)
Maximum Pressure	175 psi (12 bar)



## ICS/ICS-F



### Applications

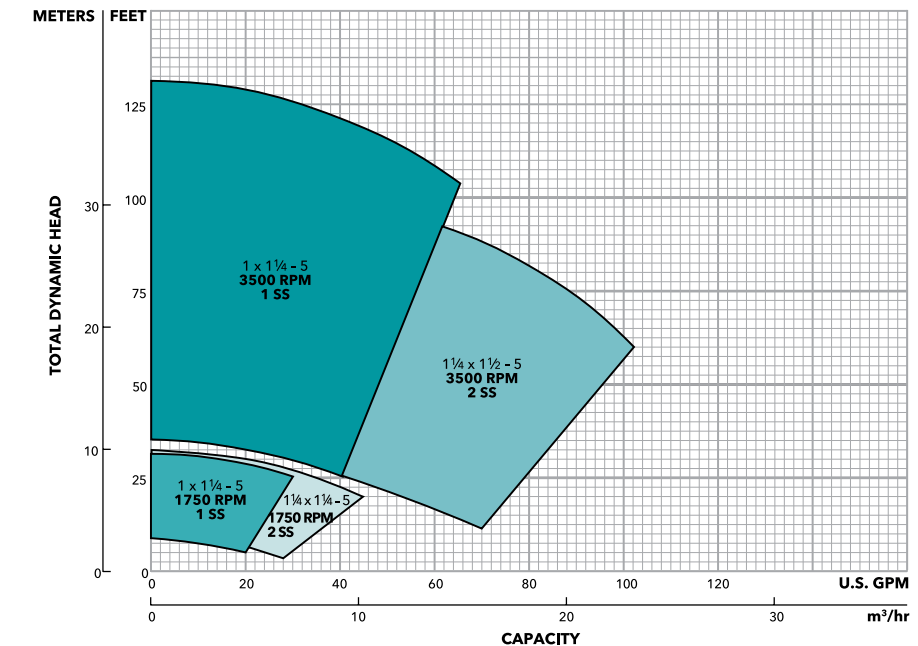
- Designed for ultra pure water, chemical and general services
- Washer equipment
- Ultra pure water systems
- Chemical transfer
- Water reclamation and treatment

### Technical Specifications

NSF 61 Certified	✓
Flow Range	5 - 500 GPM (1 - 114 m <sup>3</sup> /h)
Maximum Head	300' (91 m)
Maximum Temperature	250° F (121° C)
Maximum Pressure	175 psi (12 bar)

### Features & Benefits

- Superior materials of construction: Precision investment cast 316 stainless steel liquid end components for corrosion resistance and strength.
- Open impeller design: Spherical handling to 3/8" reduces chance of clogging and required maintenance time.
- Casing features: Investment cast 316 stainless steel construction with NPT threaded suction and discharge, optional drain and vent with stainless steel plugs. Four position discharge orientation.
- Mechanical seals: Standard John Crane Type 21 seal with carbon versus ceramic faces, Viton elastomers and 316 stainless steel metal parts. Optional seals are available for high temperature and mild abrasive services.
- Drive motors: NEMA standard 56J frame motors with rugged ball bearing design for continuous duty. Versions are available in both single and three phase with a variety of enclosures and voltage to match your service requirements.



# Single Stage End Suction

## e-SHX

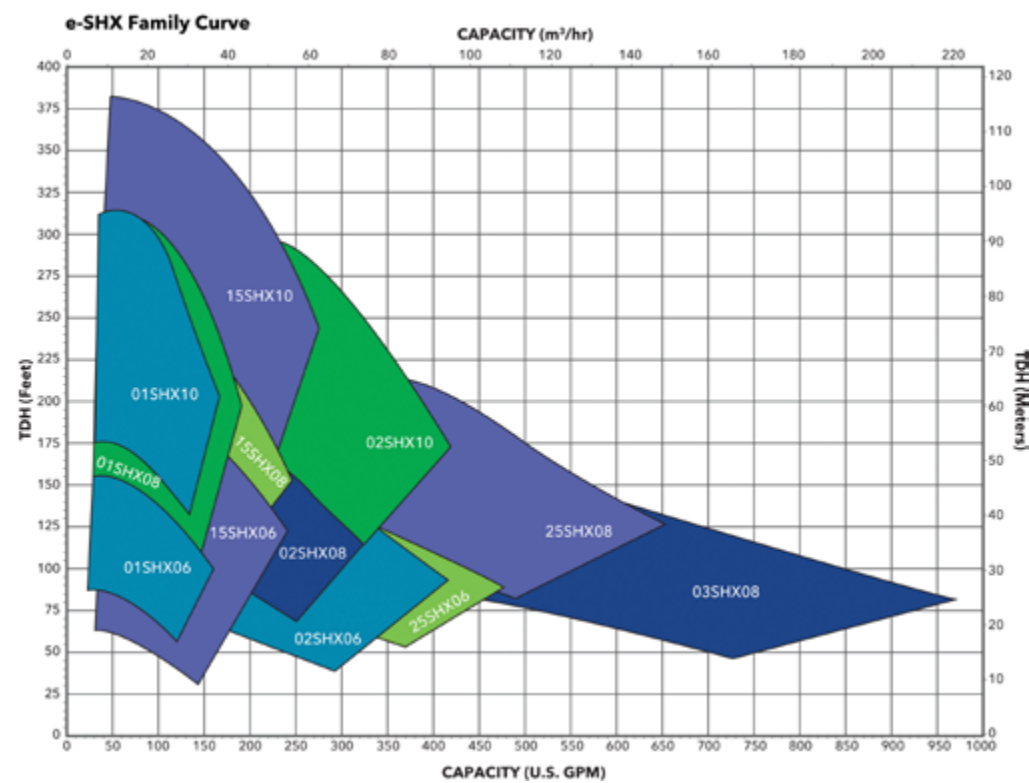


### Applications

- Water intake
- Water transfer and circulation
- Pressure boosting
- Process cooling and heating
- Fluid transfer and transport
- Produced water transfer and boosting
- Boiler feed booster

### Features & Benefits

- Simple: Built-in application software makes the drive one of the easiest to commission, program and operate, enabling virtually any configuration of pumps.
- Sustainable: No rare earth materials are used to minimize product availability challenges and address environmental concerns while offering smart technology and superior performance.
- Intelligent performance: Advanced system controls (up to 8 pumps) are customizable for a wide range of applications. The IE5 “ultra-premium” hydrovar X smart motor provides one of the broadest efficiency ranges in the industry.
- Built-in protections: Integrated functions provide protection for the pump and motor while optimizing performance.
- Compact motor design: e-SHX Smart Pumps offer increased performance to 4000 RPM, reduce electricity consumption and lower life cycle costs.
- Easy service: Separate quick connect components allow users to replace the drive or the motor independently minimizing downtime and expensive repair. The integrated electrical socket requires no additional wiring, allowing a true plug and play solution versus buying a new motor and drive combination.



### Technical Specifications

NSF 61 Certified	✓
Flow Range	up to 970 GPM (220 m³/h)
Maximum Head	up to 380 ft (116 m)
Maximum Temperature	up to 250°F (121°C)
Maximum Pressure	230 psi (16 bar)
Ambient Temperature	-4°F to 122°F (-20°C to 50°C)

## Single Stage End Suction

### e-SH

The e-SH end suction pump is designed to provide better efficiency and performance to help you meet your operational needs in a wide range of applications.

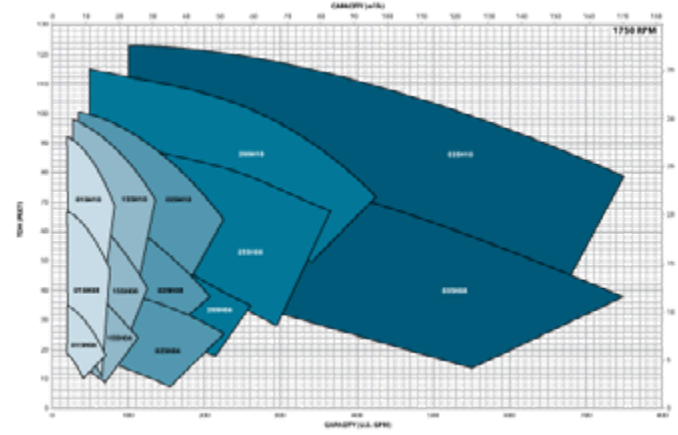
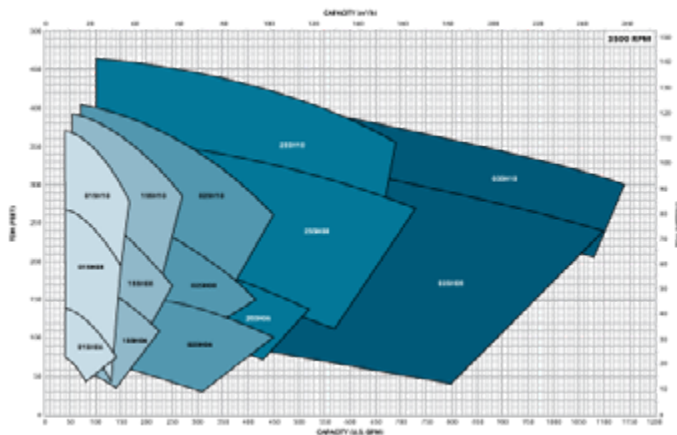


#### Applications

- Water transfer and circulation
- Pressure boosting
- Process cooling and heating
- Produced water transfer and boosting
- Salt water transfer
- Boiler feed booster

#### Features & Benefits

- Close-coupled compact design that saves space and simplifies maintenance
- Frame mounted flexible-coupled with cast iron power frame (grease lubricated ball bearing assembly)
- AISI 316 stainless steel construction for reduced corrosion and improved strength and ductility



#### Technical Specifications

NSF 61 Certified	✓
Flow Range	20 - 1140 GPM (5 - 260 m <sup>3</sup> /h)
Maximum Head	464' (141 m)
Maximum Temperature	250° F (121° C)
Maximum Pressure	230 psi (1586 kPa)

# Single Stage End Suction

## MCC



### Applications

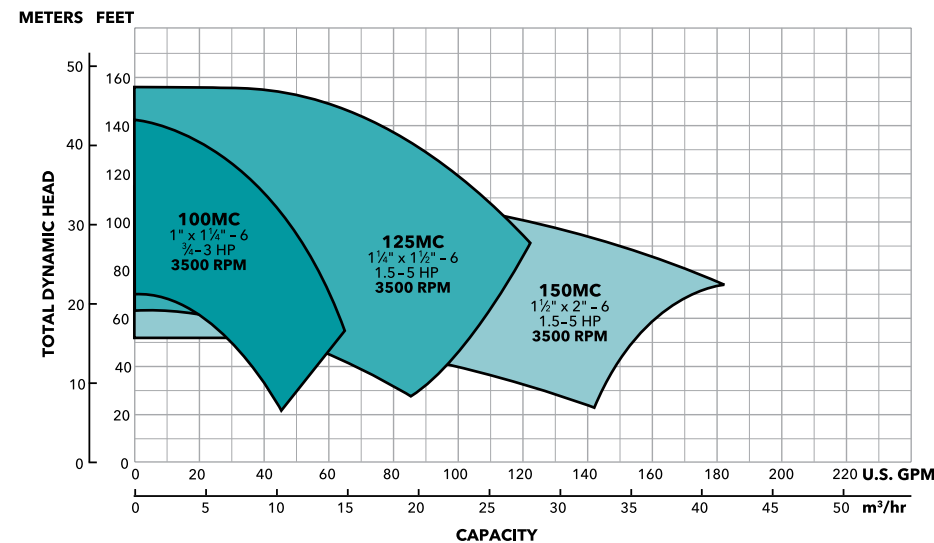
- Water circulation
- Booster service
- Liquid transfer
- Spray system
- Chillers
- Injection molding cooling
- Jockey pumps
- OEM applications

### Features & Benefits

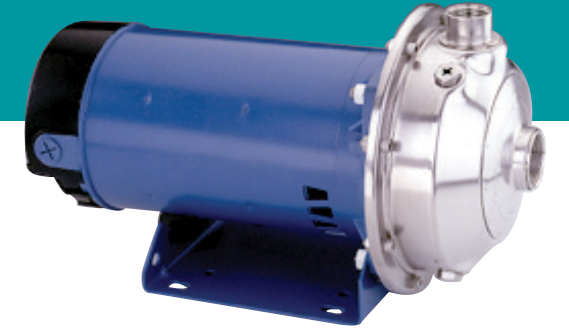
- Superior materials of construction: AISI 316L stainless steel impeller and seal housing for corrosion resistance, and improved strength and ductility. Cast iron casing for strength and durability.
- Casing: Cast iron construction with NPT threaded, centerline connections, easily accessible vent, prime and drain connections. Nine position casing rotation for easy piping.
- Mechanical seal: Standard John Crane seal with carbon ceramic faces, BUNA elastomers, and stainless metal parts. Optional high temperature and chemical duty seals available.

### Technical Specifications

NSF 61 Certified	✓
Flow Range	8 - 180 GPM (2 - 50 m <sup>3</sup> /h)
Maximum Head	156' (48 m)
Maximum Temperature	250° F (121° C)
Maximum Pressure	125 psi (9 bar)



## MCS



### Applications

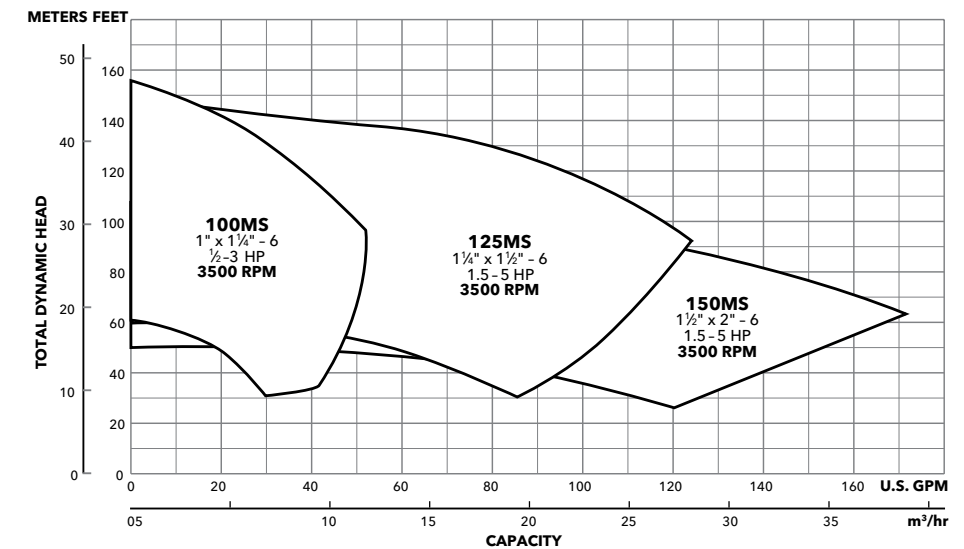
- Water circulation
- Booster service
- Liquid transfer
- Spray system
- Chillers
- Injection molding cooling
- Jockey pumps
- OEM applications

### Features & Benefits

- Superior materials of construction: AISI 304 and 316L stainless steel liquid handling components for corrosion resistance, quality appearance, and improved strength and ductility.
- Mechanical seal: Standard John Crane seal with carbon ceramic faces, BUNA elastomers, and stainless metal parts. Optional high temperature and chemical duty seals available.
- NSF 61 certification: Pumps assembled at the factory are certified to the NSF/ANSI 61 Drinking Water System Components Standard (BUNA Seal versions are not NSF Certified).

### Technical Specifications

NSF 61 Certified	✓
Flow Range	8 - 170 GPM (30 - 550 l/min)
Maximum Head	150' (46 m)
Maximum Temperature	250° F (121° C)
Maximum Pressure	125 psi (9 bar)



## Single Stage End Suction

### NPE

The NPE's close coupled compact, flexible design has corrosion resistance and improved durability to save space, simplify maintenance, and handle continuous duty under all conditions.

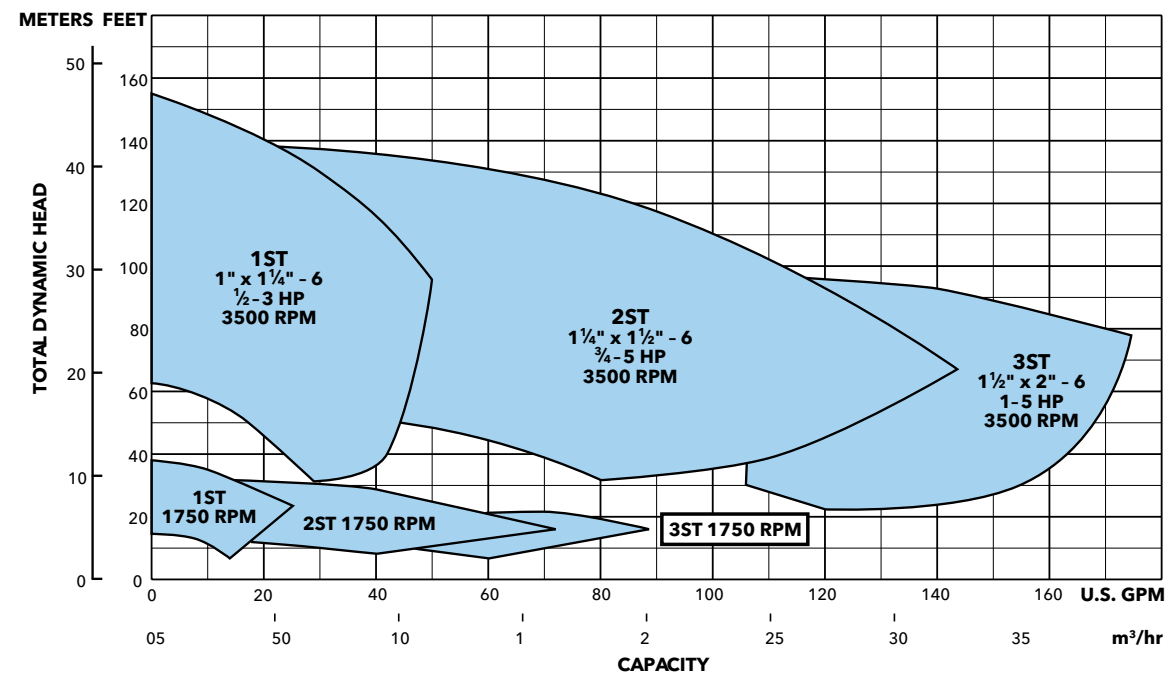


#### Applications

- Water circulation
- Booster service
- Liquid transfer
- Spray system
- General water services

#### Features & Benefits

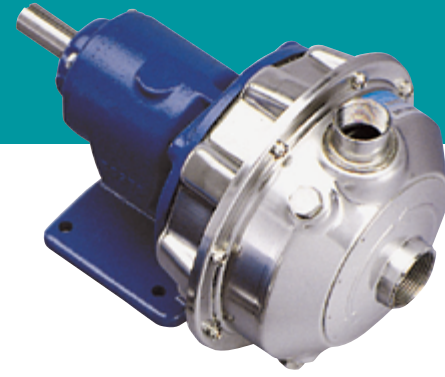
- Motors: NEMA standard open drip-proof, totally enclosed fan cooled or explosion proof enclosures. Rugged ball bearing design for continuous duty under all operating conditions.
- Mechanical seal: Standard John Crane Type 21 with carbon versus silicon-carbide faces, Viton elastomers, and 316 stainless metal parts. Optional high temperature and chemical duty seals available.
- Casing and adapter features: Stainless steel construction with NPT threaded, centerline connections, easily accessible vent, prime and drain connections with stainless steel plugs. Optional seal face vent/flush available.



#### Technical Specifications

NSF 61 Certified	✓
Flow Range	4 - 170 GPM (15 - 643 L/min)
Maximum Head	150' (46 m)
Maximum Temperature	250° F (121° C)
Maximum Pressure	125 psi (9 bar)

# Single Stage End Suction



## NPO

### Applications

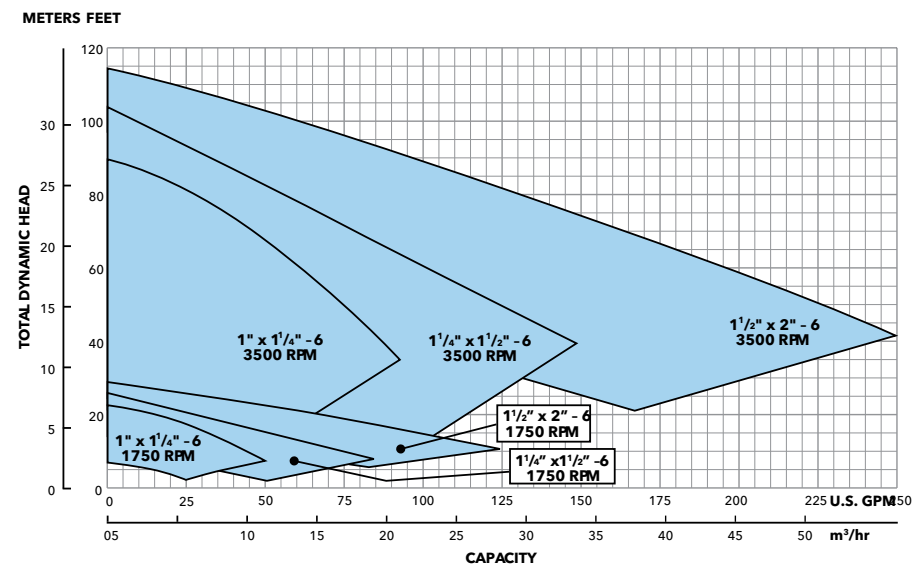
- Dishwashers
- Bottle and glass washers
- Commercial laundry systems
- Parts washers
- Machine tool coolant
- Liquid transfer
- Water circulation
- Spray system
- Chillers
- Washing/cleaning systems
- Air scrubbers
- Filtration systems
- OEM applications
- General water services

### Features & Benefits

- Open impeller design passes up to 3/8" solids including food particles, lint, metal filings, and other wash residue
- Standard John Crane type 21 mechanical seals with carbon versus ceramic faces and viton elastomers with optional high temperature and chemical duty seals available
- The NPO can be installed in either a horizontal or vertical position with an optional seal chamber vent available

### Technical Specifications

NSF 61 Certified	✓
Flow Range	5 - 200 GPM (19 - 550 L/min)
Maximum Head	100' (50 m)
Maximum Temperature	250° F (121° C)
Maximum Pressure	125 psi (9 bar)



## LB

### Applications

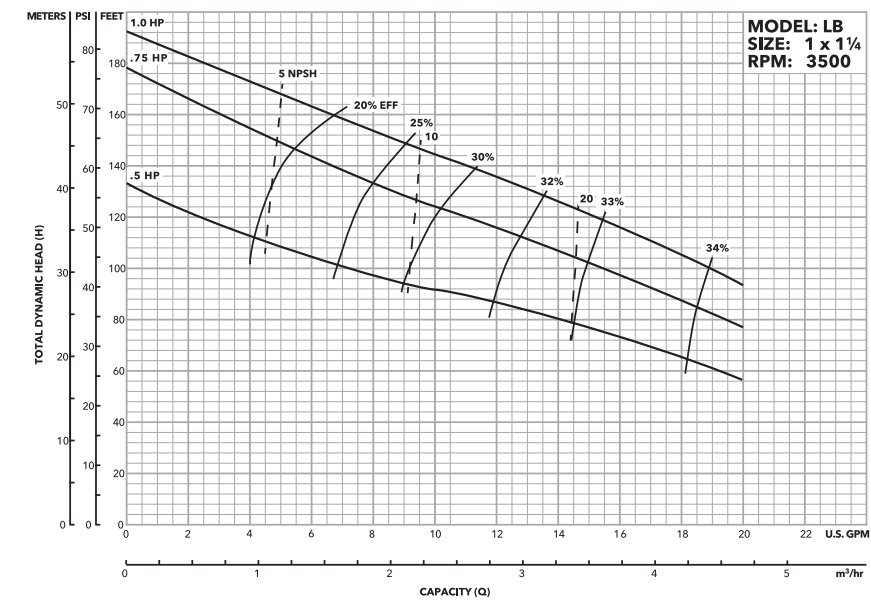
- R/O systems
- Chillers
- Potable water boosting

### Features & Benefits

- High head water boosting: The LB booster pump provides an economical alternative for small booster sets with flow requirements up to 18 GPM and heads up to 190 feet
- Engineered thermoplastic internal components: Impellers, guide vanes and motor adapters are high strength and light weight engineered composite
- Motors: NEMA standard 48Y and 56Y open drip proof enclosures with optional single phase, three phase or 575 volt TEFC configuration

### Technical Specifications

NSF 61 Certified	✓
Flow Range	3 - 20 GPM (0.7 - 4.6 m³/h)
Maximum Head	190' (57 m)
Maximum Temperature	140° F (60° C)
Maximum Pressure	85 psi (6 bar)



# Vertical Turbines

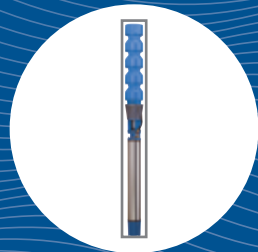
Xylem's vertical turbines solve complex applications while ensuring reliability, efficiency, and uptime with models for every application, including corrosive/abrasive and high/low pressure. Our vertical turbines can be multi-staged for tremendous flexibility and future system changes, while utilizing common hydraulic designs for the pump bowl assembly and multiple construction materials available to suite every need.



**VIC -  
Canned Lineshaft**



**VIT -  
Short Set Lineshaft**



**VIS -  
Submersible (Borehole)**

## VIC - Canned Lineshaft



### Applications

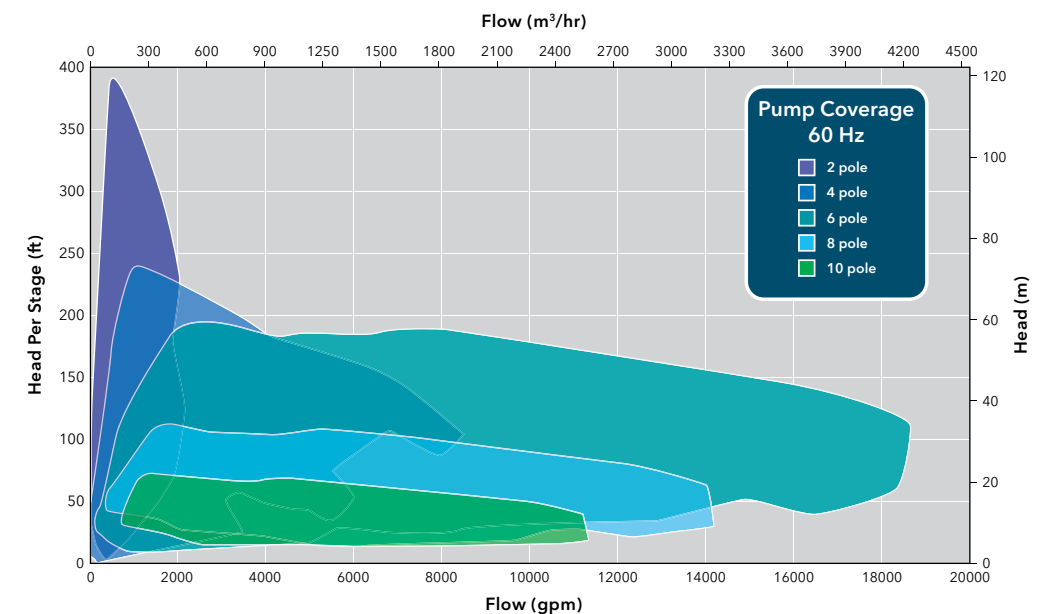
- Commercial & industrial water supply
- Municipal water and wastewater
- Booster systems & packaged pump stations
- Plant water systems
- Storage terminal transport & boosting
- Waste water treatment
- Potable
- Crude oil

### Features & Benefits

- Hydraulic coverage from 50 - 70,000 GPM
- Options for low-NPSHa conditions and suction lift concerns
- Customizable configurations for site-specific needs

### Technical Specifications

NSF 61 Certified	✓
Flow Range	50 - 70,000 GPM (11 - 15900 m <sup>3</sup> /h)
Maximum Head	Per stage: 5 - 375' (1 - 114 m)



## VIT - Short Set Lineshaft



### Applications

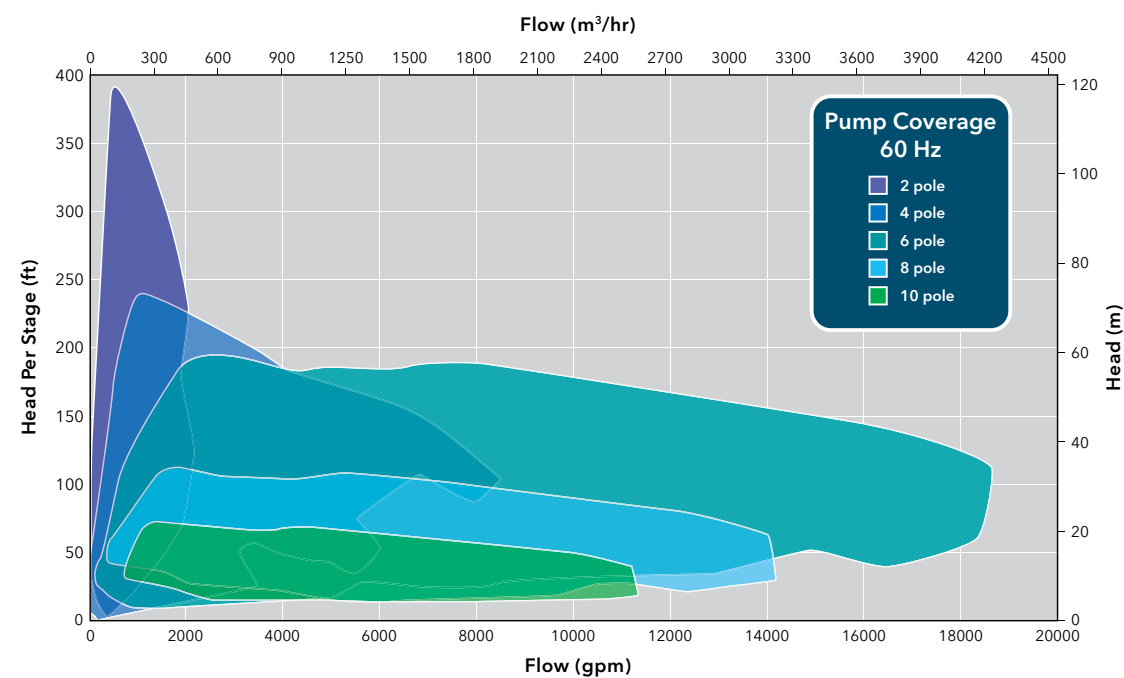
- Industrial process pumps
- Municipal water and wastewater
- Storage terminal transport
- Mine dewatering
- Dewatering and flood control

### Features & Benefits

- Hydraulic coverage from 50 - 70,000 GPM
- Options for low-NPSHa conditions and suction lift concerns
- Customizable configurations for site-specific needs, such as above/below ground discharge

### Technical Specifications

NSF 61 Certified	✓
Flow Range	50 - 70,000 GPM (11 - 13,627 m <sup>3</sup> /h)
Maximum Head	Per stage: 5 - 375' (1.5 - 114 m)



## VIS - Submersible (Borehole)



### Applications

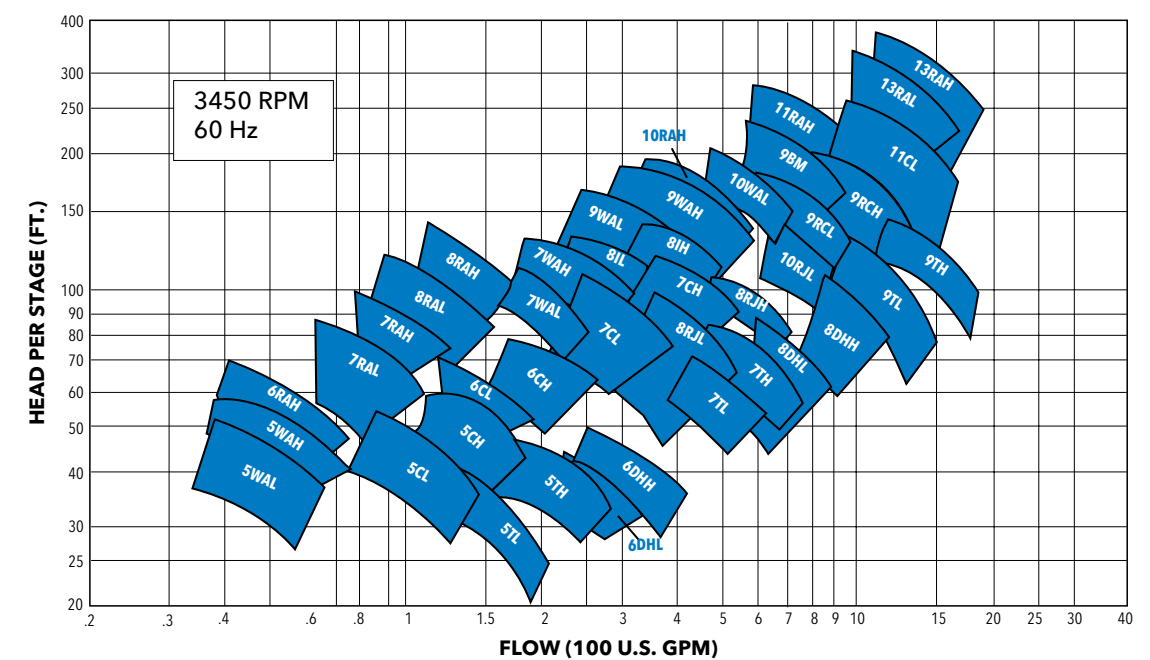
- Deep set applications where use of lineshaft pumps is impractical
- Municipal
- Wastewater plants
- Commercial/Industrial
- Irrigation
- Dewatering
- Mining
- Cooling tower
- Snowmaking

### Features & Benefits

- Customizable configurations for site-specific needs
- Inground installation results in space-saving, quiet operation
- Designed for minimal maintenance and long pump life

### Technical Specifications

NSF 61 Certified	✓
Flow Range	50 - 3,000 GPM (11 - 681 m <sup>3</sup> /h)
Maximum Head	Per stage: 5 - 375' (1.5 - 114 m)





# Wastewater

Our tough, reliable wastewater pumps are thoroughly proven to devour solids and fibers, and resist clogging. Plus, they're backed by the expertise and support of a dedicated team from a trusted leader that's been delivering innovative wastewater solutions for over 170 years, including superior seal strength, built in the USA products, and a wide range of products and horsepower.



**3885 - WE Series**



**3886 - WS Series**



**3887BF - WS  
BF Series**



**3888D3 - WS  
D3 Series**



## 3885 - WE Series

### Applications

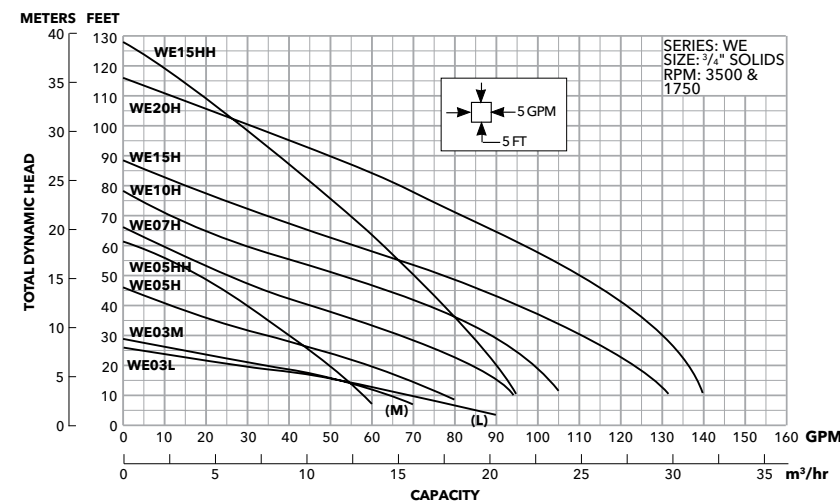
- Homes
- Farms
- Trailer courts
- Motels
- Schools
- Hospitals
- Industry
- Effluent systems

### Features & Benefits

- Impeller: Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.
- Casing: Cast iron volute type for maximum efficiency. 2" NPT discharge.
- Mechanical Seal: Silicon Carbide vs. Silicon Carbide sealing faces. Stainless steel metal parts, BUNA-N elastomers
- Shaft: Corrosion-resistant, stainless steel. Threaded design. Locknut on all models to guard against component damage on accidental reverse rotation.
- Fasteners: 300 series stainless steel. Capable of running dry without damage to components. Designed for continuous operation when fully submerged.

### Technical Specifications

NSF 61 Certified	✓
Flow Range	140 GPM (32 m <sup>3</sup> /h)
Maximum Head	128' (39 m)
Maximum Temperature	Continuous: 104° F (40° C) Intermittent: 140° F (60° C)



## 3886 - WS Series



### Applications

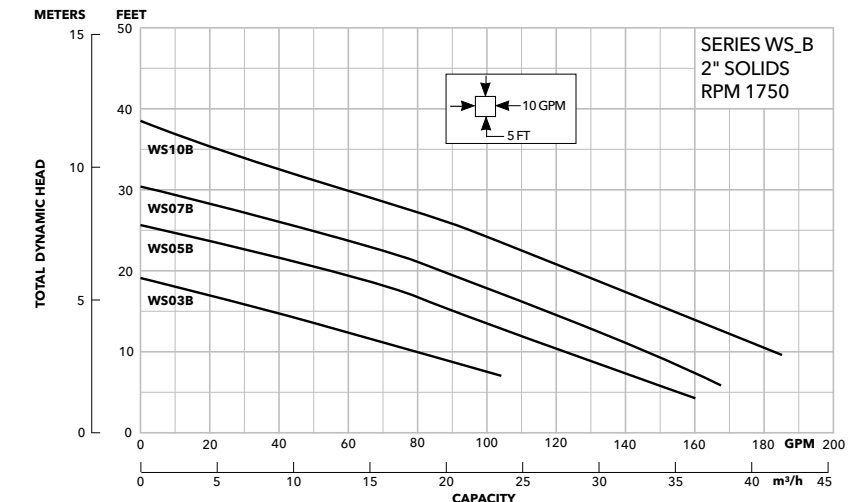
- Homes
- Sewage systems
- Dewatering/effluent
- Water transfer

### Features & Benefits

- Impeller: Cast iron, semi-open, dynamically balanced, non-clog with pump out vanes for mechanical seal protection. Optional Silicon bronze impeller available.
- Casing: Cast iron volute type for maximum efficiency. Designed for easy installation on A10-20 guide rail or base elbow rail systems.
- Shaft: Corrosion-resistant stainless steel. Threaded design. Locknut on all models to guard against component damage on accidental reverse rotation.

### Technical Specifications

NSF 61 Certified	✓
Flow Range	185 GPM (42 m <sup>3</sup> /h)
Maximum Head	38' (12 m)
Maximum Temperature	Continuous: 104° F (40° C) Intermittent: 140° F (60° C)



# 3887BF - WS BF Series



## Applications

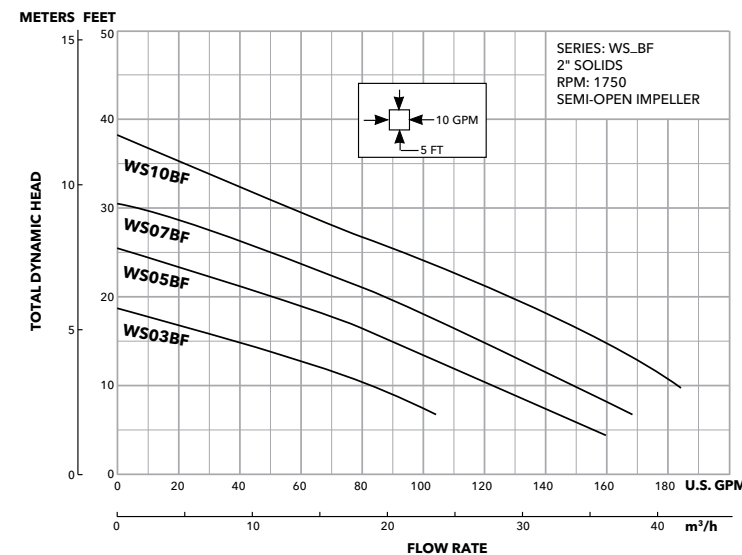
- Homes
- Water transfer
- Sewage systems
- Light industrial
- Dewatering/Effluent
- Commercial applications
- Anywhere waste or drainage must be disposed of quickly, quietly and efficiently

## Features & Benefits

- Cast iron semi-open non-clog impeller
- Cast iron flanged volute type for maximum efficiency
- Corrosion resistant 300 series stainless steel shaft
- Designed for continuous operation when fully submerged

## Technical Specifications

NSF 61 Certified	✓
Flow Range	185 GPM (42 m <sup>3</sup> /h)
Maximum Head	38' (12 m)
Maximum Temperature	Continuous: 104° F (40° C) Intermittent: 140° F (60° C)



# 3888D3 - WS D3 Series



## Applications

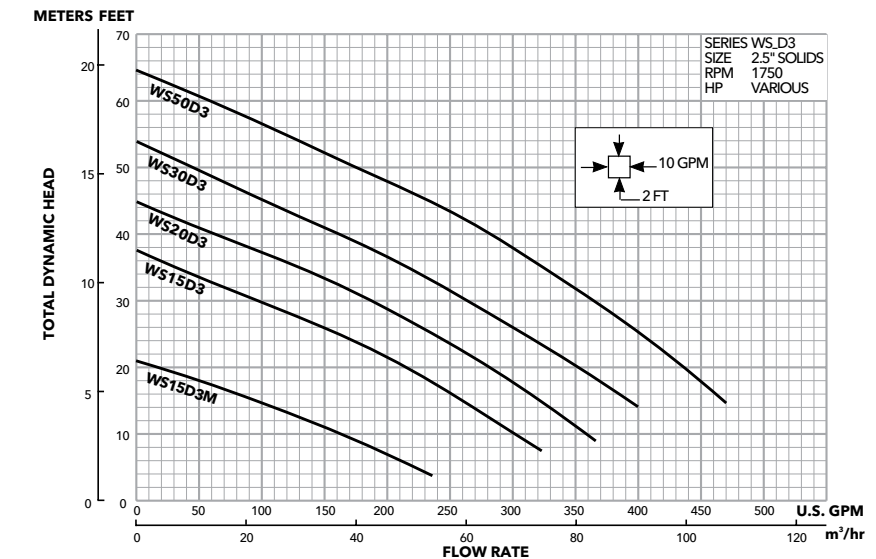
- Sewage system
- Flood and pollution control
- Dewatering effluent
- Farms
- Hospitals
- Trailer courts
- Motels

## Features & Benefits

- Cast Iron, two vane semi-iron, non-clog impeller with pump-out vanes for mechanical seal protection
- Heavy Duty cast iron, volute type casing for maximum efficiency
- 2.5" solids handling capabilities
- Designed for continuous operation

## Technical Specifications

NSF 61 Certified	✓
Flow Range	470 GPM (107 m <sup>3</sup> /h)
Maximum Head	65' (20 m)
Maximum Temperature	Continuous: 104° F (40° C) Intermittent: 140° F (60° C)



## ADDITIONAL RESOURCES

Goulds Water Technology provides more than pumps. We provide a wide range of tools and training to further support you as an industry professional.

**Training & Education:** Goulds Water Technology offers a variety of training resources available to support industry professionals.

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- [e-Learning courses](#)
- [Webinars](#)
- [Podcasts](#)
- On-Demand videos
  - » [Goulds Water Technology YouTube Channel](#)
  - » [Xylem Industrial Solutions YouTube Channel](#)

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