

# TechnoForce™

## PUMP STATIONS

EXACTLY WHAT YOU NEED.

# TechnoForce™ Pump Stations

TechnoForce Pump Packages are designed around your exact needs. They allow building owners, contractors and engineers to easily select the booster package with precisely the right performance. They are easy to install, set up and are designed to communicate and work seamlessly in both new and retrofit applications. Best of all, with Xylem's single-source responsibility and technical expertise, it's easy to work with us to provide you with exactly the pump station you need.

The TechnoForce provides potable pressure boosting through 1600 gpm and up to 300 PSI for a variety of applications including high rise buildings, educational institutions, hospitals and light industrial use.

- ANSI/NSF 61/NSF 61 Annex G certified (pending)
- Full hydrostatic and electrical testing
- Pre-programmed for easy installation and start-up
- Rugged mechanical design with simple layout
- 304 SS manifolds with grooved connections
- Stainless steel vertical multi-stage or end suction pumps

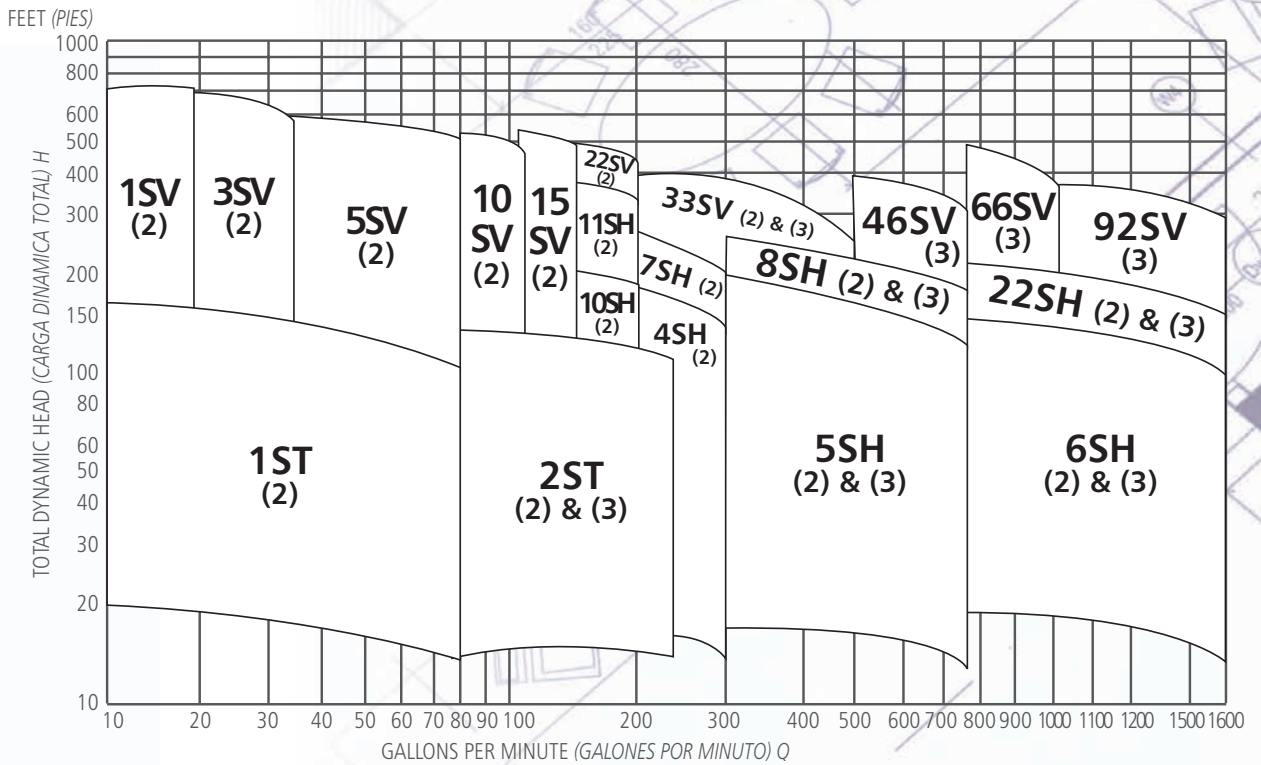
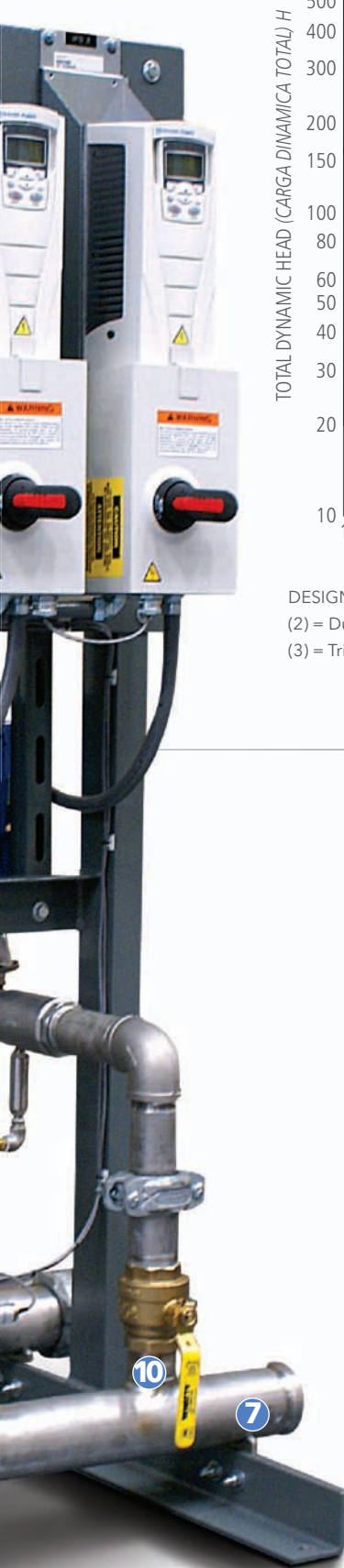
## GENERAL INFORMATION

1. Steel Frame and Base
2. Pump - Stainless steel construction, end suction or vertical multi-stage
3. Motor - Standard NEMA design, 56C, JM or TC frame
4. System Main Disconnect - NEMA 1 enclosure - TechnoForce variable speed pump controller
5. Individual Drive Fused Disconnects (for VS systems)
6. Grooved Suction Manifold - 304 stainless steel
7. Grooved Discharge Manifold - 304 stainless steel
8. Pressure Gauges - Liquid filled 2-1/2" diameter, bourdon tube type
9. Check Valves - Non-slam, silent type; (VS Systems), Pressure Reducing Valves (CS Systems)
10. Isolation Valves - Ball or wafer type, low loss

## MAJOR COMPONENTS



NOTE: Specifications /equipment are subject to change without notice. Verify with factory.



PERFORMANCE

DESIGNATIONS:

(2) = Duplex \*SV = e-SV vertical multi-stage \*ST = End suction NPE  
 (3) = Triplex \*SH = End suction SSH

NOTE: The curves shown are intended to provide information on the wide selection of pumps/configurations available. System losses are not included in the curve data and must be considered for system design. For formal selection, please utilize the ESP DESIGN PLUS web based selection tool.

FEATURES AND SPECIFICATIONS

- All systems are UL/cUL listed as packaged pumping systems
- Compact Footprint - Most systems will fit through a standard 36" x 80" doorway. Ideal for retrofit installations
- 200 - 230 Volt three phase up to 75 HP, 380 - 460 Volt up to 75 HP, 575 Volt up to 75 HP
- Systems with up to four pumps
- Each system is fabricated with Xylem stainless steel centrifugal pumps
- ODP motors standard. Optional TEFC and Premium Efficient
- System protection:
  - overvoltage
  - undervoltage
  - NPSHa
  - pump run-out protection
  - transducer failure
  - cavitation
  - blocked suction
  - motor current overload
  - short circuit
  - dry run protection
  - fault detection and alarm relay
- Ambient temperatures up to 104° F
- Maximum operating pressures up to 300 psi
- Programmable lead /lag alternation, system pressure starting, and soft start
- Motor run relay
- Log menu for historical data
- Patented i-Alert™ continually monitor and measure vibration to support optimum performance. Available on packages with e-SV pumps (10HP and above)



## Variable Speed and Constant Speed Pump Controllers

The Technologic controller provides pump specific algorithms and an easy to navigate interface to simplify startup and maintenance of your system. Bell & Gossett's unique pump control logic provides maximum value, proven reliability and superior energy efficiency and system protection.



Technologic  
Constant Speed Panel

TechnoForce  
Variable Speed Panel

### FEATURES

• Industry-leading QuickStart setup feature	• Manual and automatic pump alternation
• Choice of variable speed or constant speed operation	• Auto start of lag pump upon pump failure
• Standard NEMA 1 enclosure	• Integral curve limiting protection
• Door interlocked disconnect	• High/low system pressure cutout
• UL/cUL	• No flow shutdown
• Local-remote selection	• Modbus, BACnet MS/TP (BTL Certification Pending) or Johnson N2 serial communication
• Motor overload protection	• Optional redundant pressure sensor or low suction sensor
• Diagnostic display	• Optional multiple pressure zones

## New **ESP<sup>DESIGN</sup>** system selection software.

Xylem's ESP Design Plus is the only comprehensive sizing/selection software available in the industry. Easily determine the correct flow and head for every pumping application and for every area of the building to make sizing and selection as quick and simple as possible.

ESP Design Plus software quickly generates accurate specifications, job specific schematics and drawings that meet the needs of your project. This drastically cuts the approval process time, allowing you to meet your job deadlines.

## Trust the name that set the standard in the industry - Xylem Bell & Gossett.

By choosing Xylem as your single-source provider for all your pumps and pumping system needs, you'll have the tools and resources you need to select the most efficient, high-performing system for your project. With more than 90 years of pump, HVAC and plumbing systems experience, Bell & Gossett delivers the knowledge you need to design a complete system that fits your application. And because we're part of Xylem, the largest pump manufacturer in the world, you can feel confident you'll get tough, high performing products you can depend on.

Your local Bell & Gossett Representative is an experienced professional with a wealth of technical expertise. Because they know systems from design to operation, they can give you the advice and support you need to successfully install, operate and maintain your systems.

For more information visit [www.xylem.com/brands/bellgossett](http://www.xylem.com/brands/bellgossett)



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