



AQUAFORCE™

P U M P S T A T I O N S

Perfectly simple.



ITT

Engineered for life

AQUAFORCE

P U M P S T A T I O N S

AquaForce Pump Stations are designed to be simple from beginning to end. They are simple to specify, simple to install, simple to set up and designed to communicate with your existing systems. Best of all, with ITT's single-source responsibility and technical expertise, it's simple to work with us.

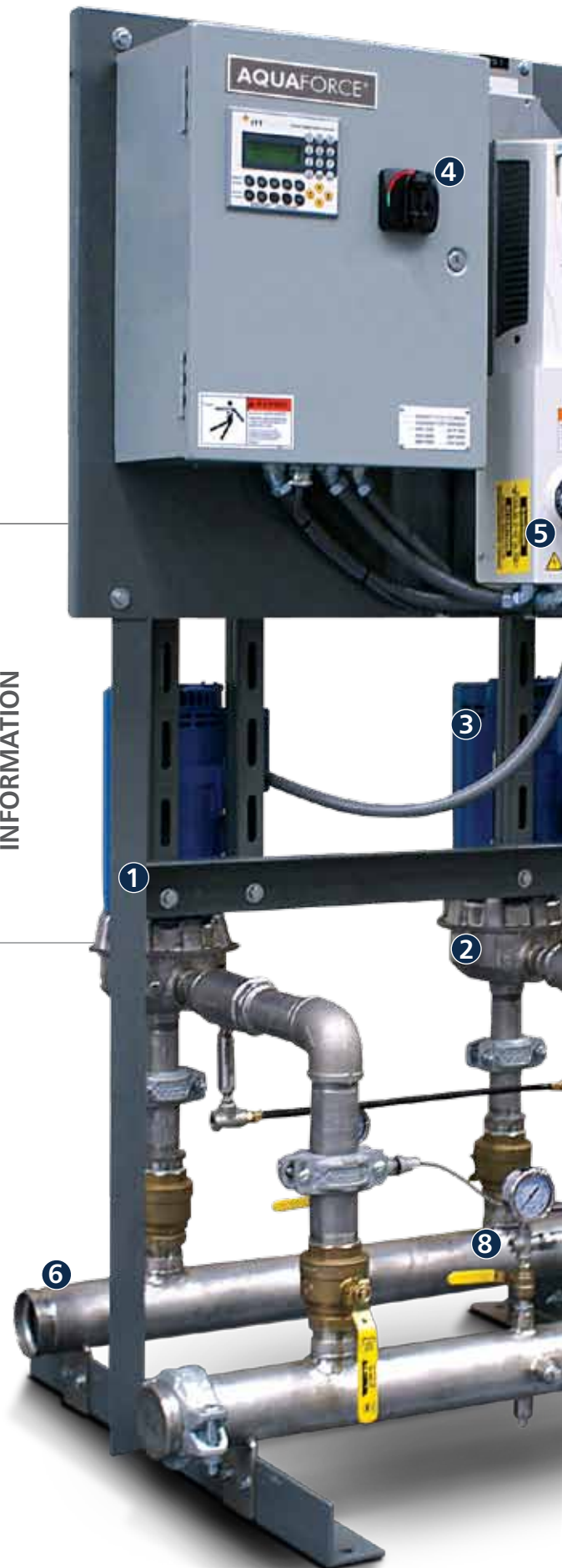
The AquaForce provides pressure boosting for a variety of applications including buildings, industrial plants, irrigation, municipal and rural water districts.

- 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
- Goulds stainless steel vertical multi-stage or end suction pumps

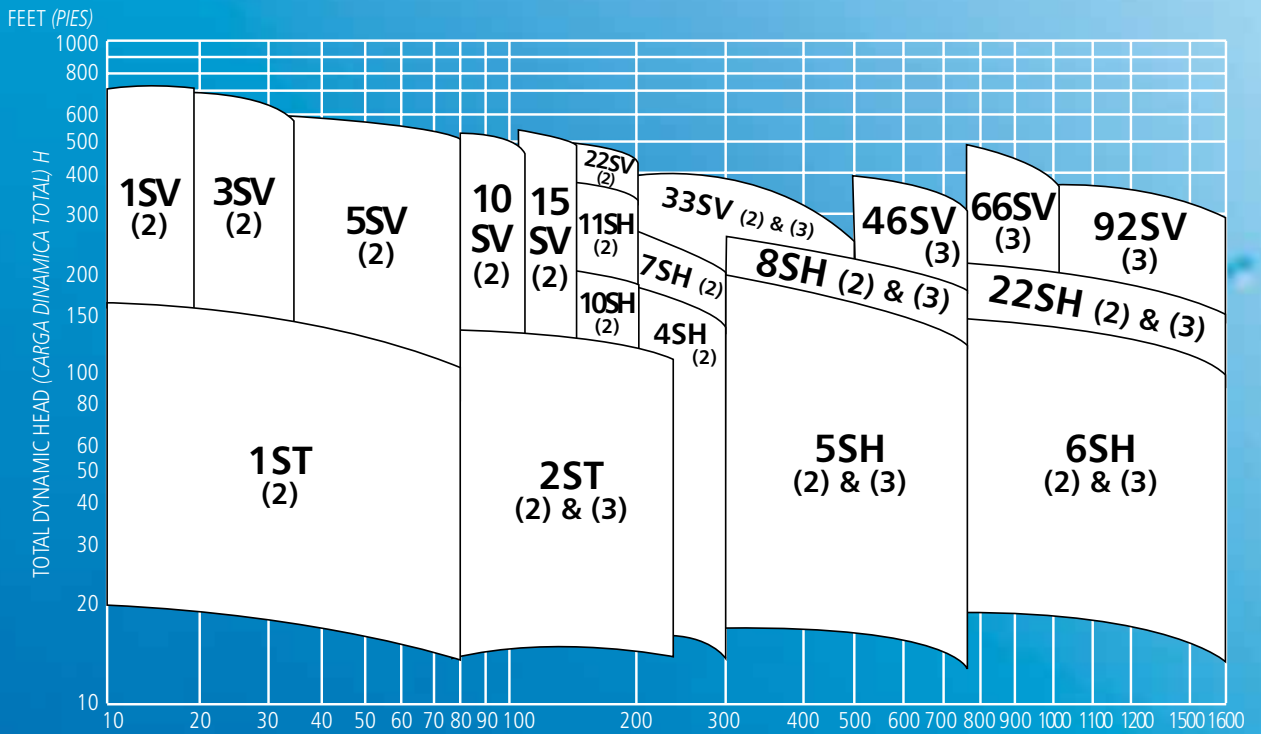
GENERAL INFORMATION

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. AquaForce variable speed pump controller
5. Individual Drive Fused Disconnects
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
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 Goulds Selection Software 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 Goulds Pumps stainless steel centrifugal pumps
- ODP motors standard. Optional TEFC and Premium Efficient
- System protection:
 - overvoltage
 - undervoltage
 - blocked suction
 - motor current overload
 - NPSHa
 - phase loss
 - transducer failure
 - pump run-out protection
 - cavitation
 - motor run relay
 - dry run protection
 - fault detection and alarm relay
 - short circuit
- 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 Pump Controller

The AquaForce controller provides pump specific algorithms and an easy to navigate interface to simplify startup and maintenance of your system.

FEATURES

• Industry-leading QuickStart setup feature	• Manual and automatic pump alternation
• Energy efficient variable 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 RTU serial communication
• Motor overload protection	• Optional redundant pressure sensor or low suction sensor
• Diagnostic display	

New Goulds Selection Software.

The only comprehensive selection software program available in the market. Easily determine the correct flow for every area of a building to make sizing and selection as simple as possible.

ITT's Goulds Selection Software lets you quickly generate accurate, comprehensive specs, schematics and drawings that meet the needs of your project, considerably cutting down the approval process time and protecting your job deadlines.



We manufacture professional grade pumps, controls and accessories for commercial and residential water supply and wastewater applications. Our nationwide distribution can get you the products you need quickly. Backed by over 160 years in the pump business and the Goulds Pumps customer support and service that is second to none.

Goulds Pumps is a global leader in the water technologies market. The Goulds Pumps' product portfolio includes submersible and line shaft turbine, 4" submersible, jet, wastewater and centrifugal pumps for residential, agriculture and irrigation, sewage and drainage, building services, commercial and light industrial use.

ITT Corporation is a high-technology engineering and manufacturing company operating on all seven continents in three vital markets: water and fluids management, global defense and security, and motion and flow control. With a heritage of innovation, ITT partners with its customers to deliver extraordinary solutions that create more livable environments, provide protection and safety and connect our world.

For more information visit www.goulds.com

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