

Industrial Process Systems

GRUNDFOS ENGINEERED SYSTEMS

Grundfos Engineered Systems (GES) designs and manufactures process systems for Industrial applications. We focus on solutions that combine our unique core technologies. These solutions include optimized pumping systems with intelligent controls and packaged systems that include the selection of the most efficient equipment technology available for each application. GES offers open skid systems or enclosed systems. Our outdoor rated modular enclosures are designed for superior life and include lighting, convenience receptacles, and HVAC unit for equipment maintenance working conditions. Seismic and wind load rating available along with corrosive environment coatings for conditions such as sea water. GES provides packaged solutions for such process applications as chemical, food, beverage, pharmaceutical and many others.



Key Features and Benefits

- Integration of our premium efficient pumps from Grundfos complete range of pumps. The pump on any Industrial system is the engine that drives the process medium throughout the building
- Complete electrical distribution for single-point input power connection.
- Innovative design and intensive engineering effort translate into lower initial cost, longer pump life, and lower maintenance costs
- Integration of accessories such as filtration systems, expansion tanks, air separators, heat exchangers, chemical treatment systems and others as specified
- Systems designed for maximum efficiency, reliability, and quieter operation for the end user
- Fixed costs and guaranteed delivery for a major portion of your project
- CU 352 control system available for ease of use and integration with your facility
- GES systems are built to be shipped to jobsite, installed quickly, and efficiently for immediate operation. Factory built systems minimize jobsite disruption and various construction delays.
- Pressure testing of all finished piping and components up to 300 psi as needed by project
- Continuity test of all 480V power wiring for proper phasing and grounding
- Engineered to order design with 3D CAD modelling
- Single source of manufacturing and ISO 9001 facility provides quality construction and value-added services

APPLICATIONS

- Industrial process
- Pressure boosting
- Cooling and thermal
- Washing and cleaning
- Water and wastewater treatment

GES Industrial Process Systems Technical Data

Control variant	GES Unit
Hydraulic data	
Maximum head ft. [m]	690 ft. [210 m]
Flow rate gpm [m ³ /h]	1 to 32,000 gpm (7268 m ³ /h)
Liquid temperature °F [°C]	0° to 240° F [-18° to 115° C]
Maximum operating pressure psi [bar]	300 psi [20 bar]
Pump and motor data	
Number of pumps	as specified
Motor power hp	1 hp to 600 hp [0.7457 KW-447.42 KW]
Check Valve	
Non-slam Dual Disc	2" to 24" [5 to 60 Cm]
Silent check valve	○
Isolation valves	
Butterfly	2 1/2" to 36" [5 to 90Cm]
Ball Valve	1/4" to 2" [1.75 To 5cm]
Gated	○
Control Valve	
Plug Valve	○
Electric actuated Control Valve	○
General materials and fittings	
Suction diffuser	●
Strainer	○
Concentric reducer	○
Eccentric reducer	○
Pipe supports	welded to frame
Decking: 1/4" gauge hot rolled	●
Channel base frame	4" to 14"
Makeup water line double check valve	○
Piping	
Stainless steel 316 Schedule 10	○
Stainless steel 316 Schedule 40	○
Stainless steel 304 Schedule 10	○
Stainless steel 304 Schedule 40	○
Carbon steel	●
Pipe connections	
ANSI flange	●
Grooved	○
Threaded	
Approvals	
ISO 9001	●
ETL listed	○
Electrical data	
VFDs	●
Power distribution	●
Controls panel	○
Instrumentation	●
Options	
Chemical dosing system	○
Enclosure	○

- Available as standard
- Available as option or accessory