



Emerson Automation Solution Products, System & Solutions



Emerson Automation Solutions Products & Services

The industry's broadest portfolio of technologies to measure, control, optimize and power manufacturing operations — and the experience and expertise to solve their toughest problems.

Measurement Instrumentation

- Pressure
- Temperature
- Level
- Flow
- Gas and Liquid Analyzers
- Gas Chromatograph
- Flame & Gas Detectors
- Lifecycle Services

Final Control

- Control Valves
- Isolation Valves
- Actuators
- Valve Instruments
- Flame Arrester
- Diagnostics Software
- Regulators
- Tank Vents & Hatches
- Lifecycle Services

Systems & Solutions

- Control Systems
- Safety Systems
- SCADA Systems
- Operations Management Software
- Asset Management Products & Software
- Project Services
- Lifecycle Services

Flow Solutions

- Coriolis Flow
- Magnetic Flow
- Vortex Flow
- Ultrasonic Flow
- Density
- Corrosion
- Subsea Devices
- Reservoir Management Software
- Flow Systems
- Lifecycle Services

Discrete & Industrial

- Solenoid & Pneumatic Valves
- Electrical Components
- Lighting
- Precisions Welding Systems

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Measurement Instruments Portfolio



In-Line Pressure Transmitter



Radar Level Transmitter



Coplanar Pressure Transmitter



Ultrasonic Level Transmitter



Rosemount 114C Thermowell



RTD Temperature Sensor

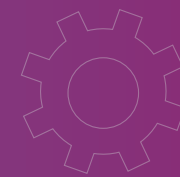


Head Mount Transmitter



Magnetic Liquid Level Gauges

Measurement Instruments Portfolio



Non-Contacting Radar Level TX



Differential Pressure FT



Multivariable Flow Transmitter



Diaphragm Seal Level TX



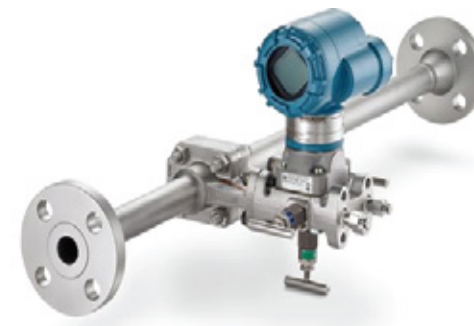
Level Detector Vibrating Frk



Annubar Flow Transmitter



Orifice Plate Flow Transmitter



Integral Orifice Flow Transmitter

Measurement Instruments Portfolio



Gas Chromatograph



Continuous Gas Analyzer



Oxygen Analyzer



Wireless Gas Monitor



pH/CO/Resistivity Analyzer



Dissolved Oxygen Analyzer



Chlorine Measuring System

Measurement Instruments Portfolio



Multi-Spectrum Infrared Hydrogen Flame Detector



Ultra Fast Ultraviolet Infrared Flame Detector



Incus Ultrasonic Gas Leak Detector



Flame Isolation Detector



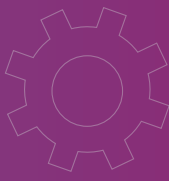
ST3 XChem Toxic Gas Sensor

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Final Control Portfolio



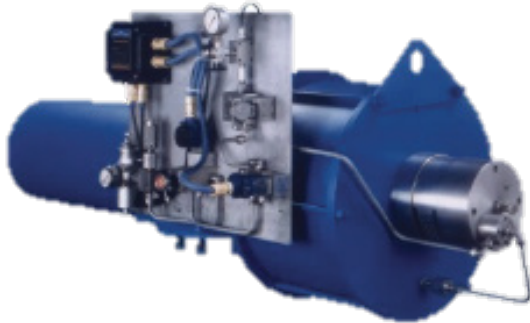
Control Valves



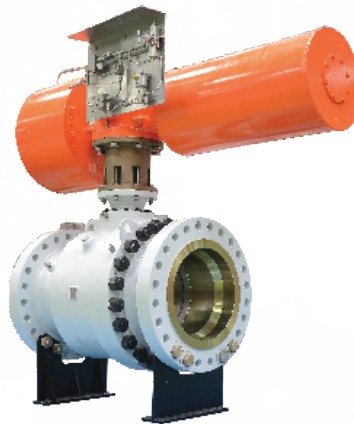
Isolation Valves



Pressure Relief Valves



Actuators



Automated Valve Solutions



Regulators

Final Control Portfolio



Flame Arrestor



Tank Vents



Tank Hatches

Custody Transfer Metering and Regulating Station

Integrated Natural Gas Technologies



Emerson Automation Solutions Products & Services

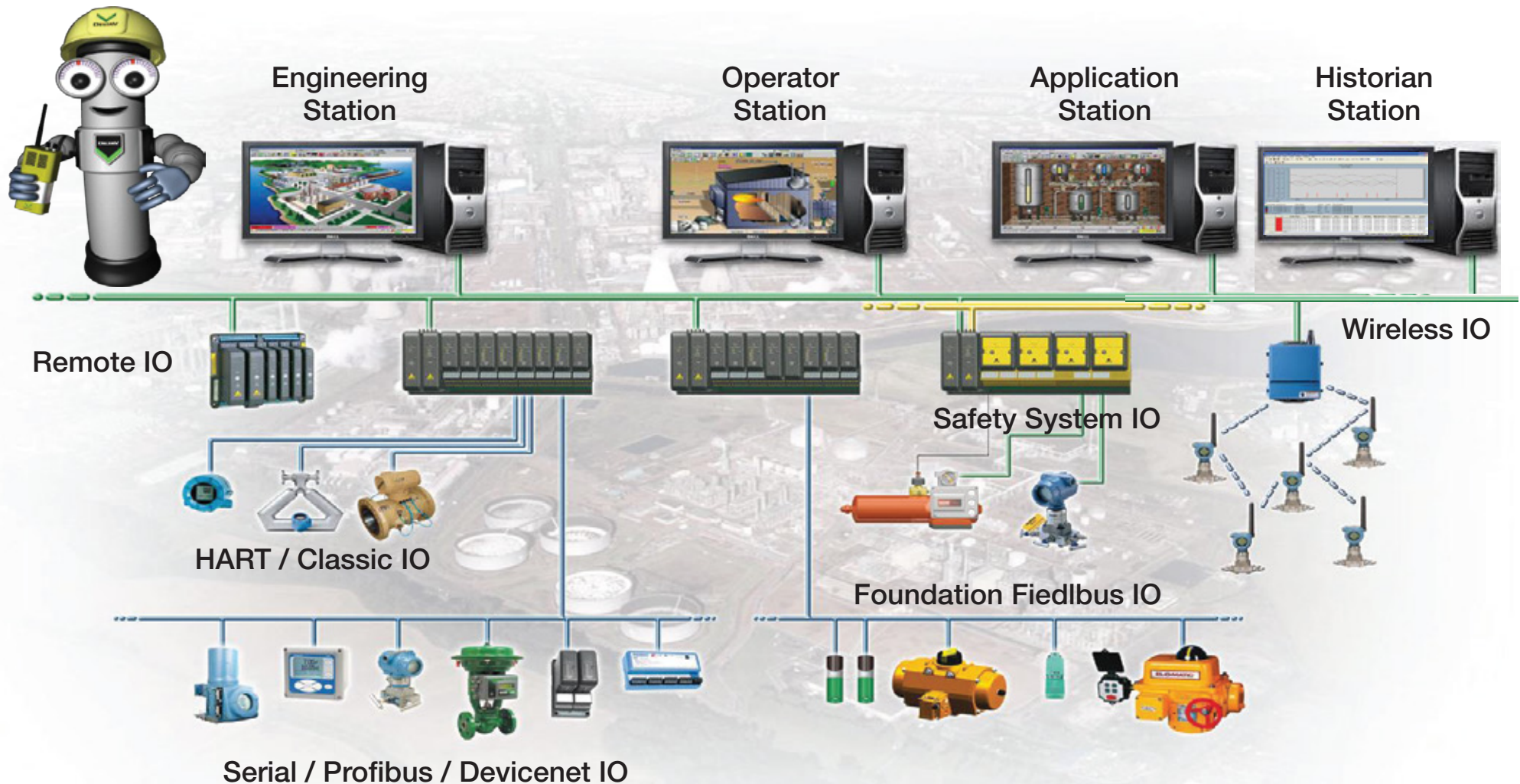
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Systems & Solutions



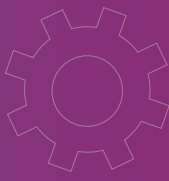
ICSS Architecture Ready for the Future



The diagram illustrates the hardware architecture of the SZ Controller and SLS Logic Solver. At the top, two computer workstations are shown, each with a monitor displaying a control interface and a tower unit. These are connected via a network to a central SZ Controller unit. The SZ Controller is a rack-mounted device with two yellow modules. Below the SZ Controller, three SLS Logic Solver units are shown, each connected to the SZ Controller via a yellow cable. The SLS Logic Solver units are rack-mounted devices with multiple yellow modules. To the right, a detailed view of the SLS Logic Solver hardware is shown, highlighting the yellow modules and the rack structure.

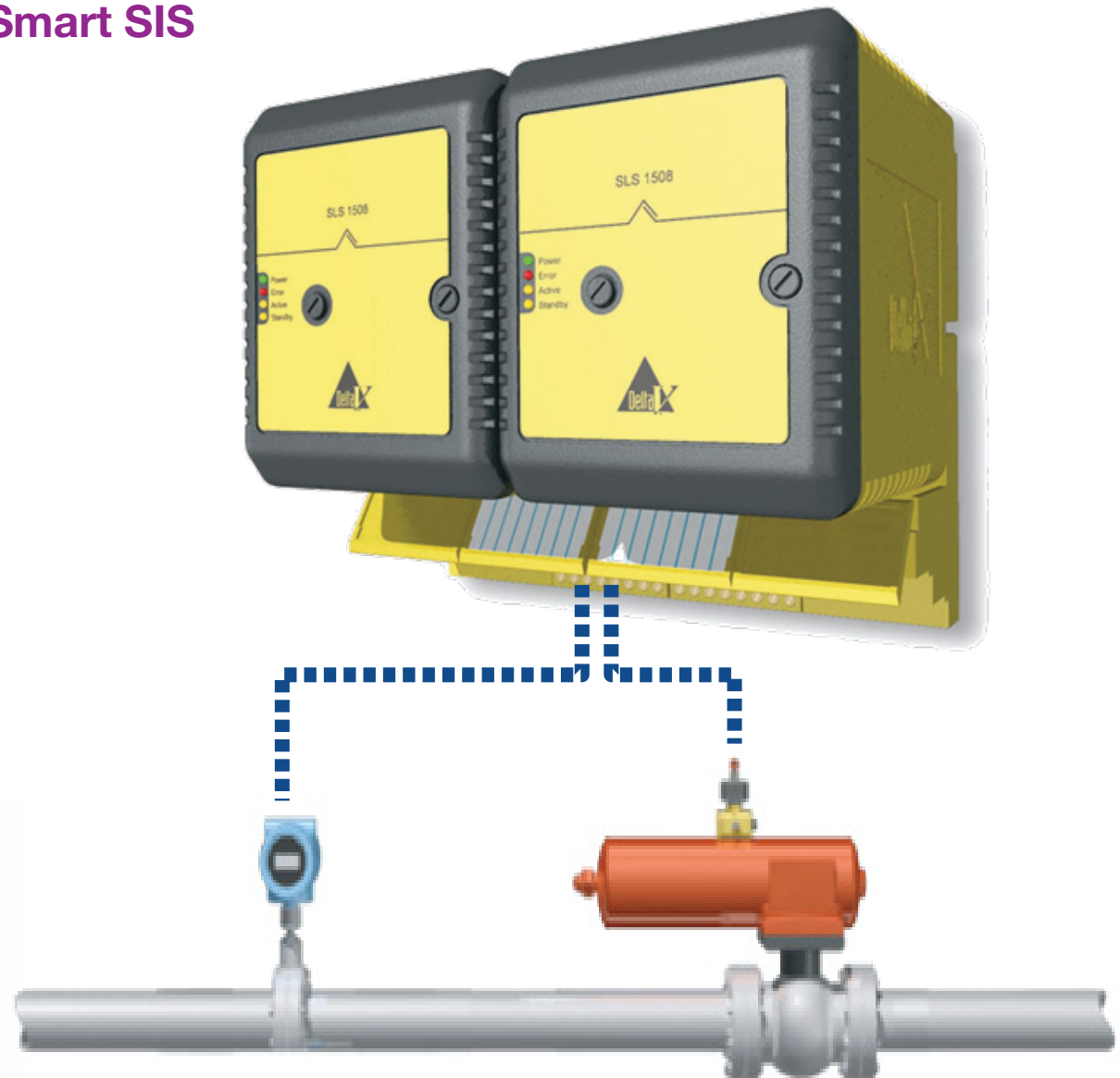


Optimized Process Reliability



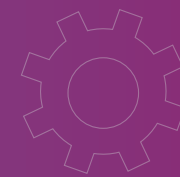
A Key Component of Emerson's Smart SIS

- Dedicated Redundancy Link between logic solver pairs
- Separate Power Per Logic Solver
- Both logic solvers use same input data for checking
- CPUs exactly match each other



Shuts down your plant when needed for safety, but keeps you running safely when components fail

Intelligent Platforms Portfolio Mix



RSTi Controllers & I/O



PACS ystems Controllers and I/O



Industrial Computers



VersaMax Controllers & I/O



Operator Interface

Solid Offering in Machine Control – PLCs and IPCs

Flow Computers

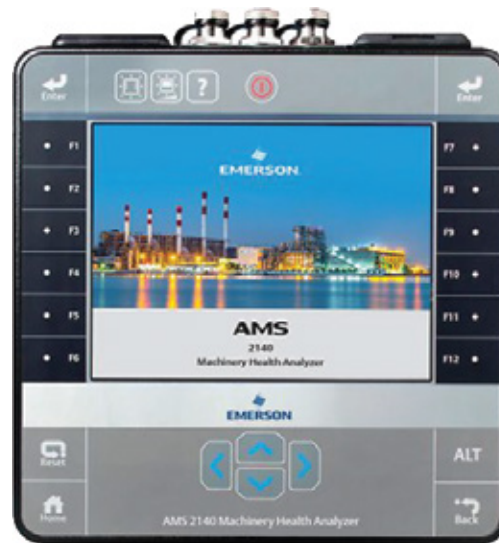


**Ideal for fiscal measurement, custody transfer, batch loading,
and meter proving applications**

Asset Monitoring and Health Analysis Solutions



AMS Trex Device Communicator



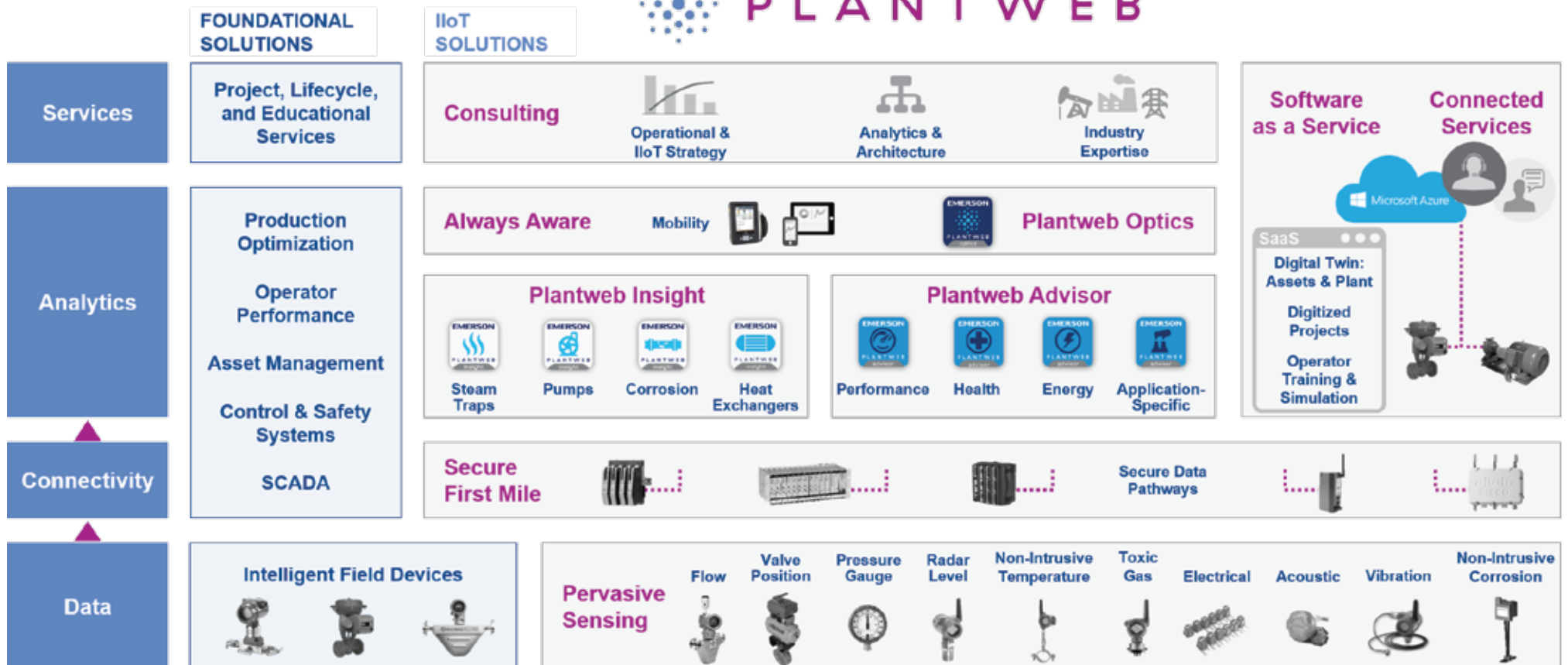
AMS 2140 Machinery Health Analyzer



AMS Device View

Prediction and Protection for Production Asset Management

The Plantweb Digital Ecosystem: Enabling Top Quartile Performance With the Industry's Broadest Integrated Portfolio of IIoT Solutions



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Flow Solutions Portfolio



Flow Measurement Products

Differential Pressure



Coriolis



Turbine



Magnetic



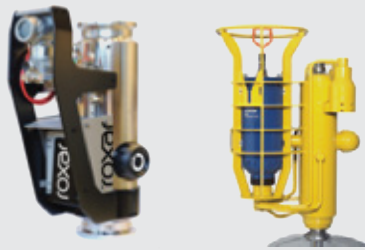
Vortex



Ultrasonic



Multiphase



Products – Monitoring, Simulation, and Control

Density Viscosity



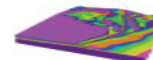
Flow Assurance



Control Valves



Reservoir Software



Watercut



Downhole



Flow Systems & Solutions

Metrology Systems

for Custody Transfer



Flow Measurement Solutions

Chemical Injection
Surge Relief Blending
Loading/Off-Loading



Flow Services



MAINTENANCE SERVICES

RELIABILITY SERVICES

PERFORMANCE SERVICES

Flow Solutions Corrosion Portfolio



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Discrete Portfolio



Solenoid Valves



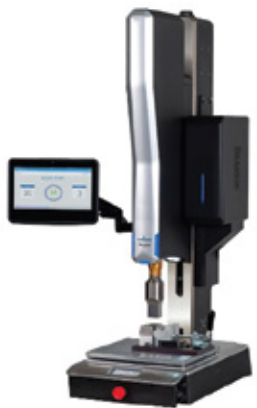
Pneumatic Valves



Gas Shutoff Valves



Junction Boxes



Ultrasonic Welding



Laser Welding





Disconnect Switches



Flood Lights



EMERSON™

APPLETON EIM BIFFI FCT  PENTAIR VAREC
ROXAR EL-O-MATIC VONK CASCADE CLARKSON
ROSEMOUNT ENARDO™ FRANCEL MICRO MOTION
FISHER TESCOM KTM HYTORK  TOPWORX
ANDERSON GREENWOOD NELSON NEOTECHA
ASCO SOLAHD KUNKLE PAINE PERMASENSE
DANIEL KEYSTONE MOBREY OVATION SHAFER
BETTIS K-Ball PENBERTHY BRANSON BAUMANN
CROSBY SEMPELL LUNKENHEIMER MAGTECH
NEOTECHA TARTARINI DANTORQUE VANESSA
DELTAV **HANCOCK** EL-O-MATIC FASANI YARWAY



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