



## APPLETON LINE CARD

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### MEASUREMENT, INSTRUMENTATION & CONTROL



**Analytical:** pH, conductivity, turbidity, ORP, DO, silica, sodium hydrazine, combustion O2/CO  
**Controllers:** Single, multi-loop, 1/16, 1/8, 1/4 Din  
**Control Systems:** Compact DCS, scalable from 100 to 10,000 I/O points  
**Damper Drives:** Electric, pneumatic, linkages  
**Device Management Tools:** HART Hand-held communicators, multifunction calibrators, software  
**Diaphragm Seals:** Fully welded, Industrial or sanitary  
**Flowmeters:** Mass, magnetic vortex, swirl, wedge, variable area  
**Positioners:** Electropneumatic, pneumatic, digital  
**Recorders:** Circular, strip videographic  
**Transducers:** I/P, P/I, Field, DIN rail, rack mount  
**Transmitters:** Pressure, differential, Level, Flow, Temperature, HART, Fieldbus  
**Variable Frequency Drives:** 1/6th-6700 Horsepower, 200-4160 Volts AC/DC  
**Web Tension Systems:** PillowBlock Load Cells



**I/O Solutions:** Signal Conditioners, Isolators, DIN Rail, Field Mount



**Pressure:** Gauges, Diaphragm Seals, Transducers, Switches, Calibrators  
**Temperature:** Thermometers, Thermowells, Switches



**Pneumatic Controls:** I/Ps, Regulators, Volume Boosters



**Air Treatment Products:** Filtration, Refrigerated/Desiccant Air Dryers



**Instruments:** Pressure, Flow, Level, Temperature



**Flow Products:** Indicators, Switches, Transmitters



**Flame Management:** Multi-Burner Flame Scanners, Burner Scanners



**FCX Wireless Solutions:** Field Units, Repeaters, RTU's, Receivers, Interface Processors



**Level & Flow Transmitters:** Through-Air & Guided Wave Radar, Ultrasonic, RF Capacitance, Thermal Dispersion  
**Level & Flow Switches:** Capacitance, Ultrasonic, Float, Thermal Dispersion, Displacer, Vibrating



**Process Controllers:** Micro-DCI, MOD, SLC



**Magnetic Level Indicators:** Guided Wave Radar Magnetostrictive Transmitters



**Indicators & Flow Products:** Sight Flow, Liquid and Magnetic Level, Gage Glass, Eductors, Jet Pumps



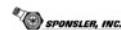
**Digital Panel Meters:** Line or Loop Powered Displays, Annunciators



**Temperature Sensors:** Thermocouples, RTD's, Thermowells, Sensor Wire



**Corrosion Resistant Instrumentation:** Flow, pH, Conductivity, ORP, Transmitters



**Turbine Meters:** Industrial, Cryogenic, Flow Rate/Total Indicators



**Connectivity Products:** Conventional and Fieldbus: Cordsets, Junction Boxes, Connectors  
**Intrinsic Safety Barriers:** Isolated, Zener, Non-Incendive Remote I/O  
**Sensors:** Proximity, Flow, Pressure, Temperature, Motion



**Valmet - Consistency Measurement:** KajaaniMCA, Analyzers, Transmitters, Sampling Valves



**Flow Sensors:** Insertion Style, Velocity Averaging



**Electric Heating:** Heating Elements, Controllers, Power Controls

# VALVES, ACTUATORS & ACCESSORIES



**Gate, Globe, Ball, and Check Valves:** 1/2" - 30" 150# - 250# C-Ball, Gate, Globe and Check Valves from -320° to 1472° Fv.

**Services:** Cryogenic, Powder, High Velocity, Mixed Product, Fast Cycling, ESD, Abrasive and Vacuum



**Solenoid Valves:** Solenoid and Air Operated Valves, Microminiature Valves, Pneumatic Controls, General Controls Combustion Valves, Valve Position Indicators, Mechanical and Electronic Pressure Sensors.



**Modular Solenoid Valves:** Fieldbus, FRL Cylinders



**Control Valves:** Low Flow, High Pressure, Sanitary



**Check Valves:** Industrial, Sanitary



**Manual and Automated Valves:** Gate, Globe, Check and Butterfly Valves



**Butterfly Valves:** Resilient-seated, M-PTFE-lined, High Performance

**Knife Gate Valves:** Uni-directional, Bi-directional, Through Port

**Pneumatic and Electric Actuators**



**Plug Valves:** Sleeved, Lined, High Alloy, Multi-port



**Corrosion Resistant Valves:** Ball, Butterfly, Diaphragm, Manual, Automated



**Safety Relief Valves:** ASME Section VIII, Flanged, Threaded



**Control Valves:** General and Severe Service Control Valves, Plug and Cage Guided, Equal Percent, Linear, and V-Port Trims. Specialty Trims For Velocity Control, Anti-Cavitation or Erosion



**Actuators:** Electric and Motor Driven Actuators, Gear Operators



## JAMESBURY

**Ball Valves:** Screwed, Flanged, Severe Service, Special Alloys

**Butterfly Valves:** High Performance and Severe Service

**Actuators:** Pneumatic, Electric and Manual

**Accessories:** Switches, Sensors, Valve Monitoring, Communications



## NELES

**Control Valve:** Eccentric Plug, Segment, Ball and Butterfly

**On-Off Valves:** Ball and Butterfly

**Emergency Shut-Down Valves:** Ball and Butterfly

**Actuators:** Pneumatic, Double Diaphragm and Manual Gear Operators

**Positioners:** Smart, Pneumatic and Electric Pneumatic

**Accessories:** Controllers, Limit Switches and Position Transmitters



**Industrial Valves:** 2-Way, Flanged, Flush Tank, 3-Way Diverter Valves, Cryogenic and Instrument Valves

**Sanitary Valves:** Trap, Flush Tank, 3-Way Diverter Valves, 3,4 and 5-Way Multi-Port Valves, Sampling, Check/Manifold Assemblies



**Pneumatic and Hydraulic Actuators:** Scotch Yoke, Rack and Pinion, Emergency Shut-down



**Valve Accessories:** Limit Switches, Position Indicators, Bus Networks



**Butterfly Valves:** Resilient Seated, Lug Wafer, Lined Actuation



**Electric Actuators:** On/Off, Control, Fail-Safe



**Triple Eccentric Rotary Process Valve:** Conical Seating, Zero Leakage, Metal Seated Quarter-Turn

## SERVICES



**Actuation Services:** Full Valve Assembly and Testing to FCX Quality Standards, Serialization

**Valve Actuation and Validation:** Production Verification, Testing, Certifications, Automated Valve Package Documentation and Serializaiton



**Engineered Systems:** Floating pump stations, chemical metering/injection, blending, pressure booster, portable pump, fluid transfer and fluid oil systems



**ASME & National Board Repair Certifications:** Air, Steam, Gas and Liquid Valves

**Safety Valves:** In-house and In-line Settings, Repair, Service

**Process Valves:** Repair and Maintenance Services

**Valve Surveys, Project Management:** Preventative Maintenance, Pressure Management



**Instrumentation Services:** Instrumentation, Calibration, Systems Integration, Project and On-Site Staffing and Predictive Maintenance