



CLEVELAND LINE CARD

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MEASUREMENT, INSTRUMENTATION & CONTROL

ABB **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 Actuators: 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



Valves & Accessories: Isolation, gauge and severe service valves, manifolds, direct mount systems, enclosures



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



Instruments: Pressure, Flow, Level, Temperature



Air Treatment Products: Filtration, Refrigerated/Desiccant Air Dryers



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



Fittings: Grylock: Instrument & Tube
Valves: Metering, Ball, Needle, Plug, Packless, Check, Manifolds, Actuators
Accessories: Low Volume Fittings, Sample Cylinders



Process Controllers: Micro-DCI, MOD, SLC



Industrial Heat Trace Solutions: Heat Tracing, Snow Melting & De-icing, Control and Monitoring Systems, Fire-rated and Performance Wiring, Design and Construction Services, Turnkey Solutions



Digital Panel Meters: Line or Loop Powered Displays, Annunciators



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



Flow Elements: Orifice Plates & Flanges, Venturi's, Nozzles, Meter Tubes



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



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

LINED PRODUCTS



Butterfly Valves: Resilient Seated, Lug Wafer, Lined Actuation



Pipe & Fittings: TFW, FEP, Lined Steel



Expansion Joints: 2, 3, and 5 Convolutions, PTFE, Stainless Steel Armored



SANI-TECH: SHT Silicone Tubing and Hoses: Wire-reinforced, Braid-reinforced, Platinum Cured, FDA Sanitary with EPDM Outer Cover, Sanitary Fittings

STEAM, PROCESS HEATING & COOLING



Steam Specialities: Traps, Heaters, Mixing Valves, Manifolds, Monitoring Systems, Condensate Recovery, and Humidification



Plate and Frame Heat Exchangers: Repair and Certification: All Brands: Cleaning, Dye Penetrant Testing, Regasketing, Frame Handling

VALVES, ACTUATORS & ACCESSORIES



Relief Valves: Spring and Pilot Operated, Flanged, Screwed, Full Nozzle



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



Valves: Corrosion Resistant, Globe, Grounding Rings



Check Valves: In-line, spring-assisted check valves for prevention of backflow, water hammer, and reverse flow for horizontal and vertical installations



Pow-R-Jac Actuators: Machine and Ball Screw Jacks, Motorized and Custom Systems



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



Relief Valves: Bronze, Brass, Iron, Steel, Pressure to 6500 PSIG, Sizes 1/4" to 8"



Actuators: Electric and Motor Driven Actuators, Gear Operators



Actuators: Manual Gear Operator



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



Gate, Globe, Ball, and Check Valves: Conventional gate, globe and check valves, pressure seal valves, through conduit gate valve, full opening check valves, bellow seal valves, 2" - 48" API 6D ball valves in 2PC, 3PC up to 1500#



Ball Valves: Severe Service: Metal and Ceramic Seated, High Pressure and Temperature up to ANSI 4500#



Valve Accessories: Limit Switches, Position Indicators, Bus Networks



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



Knife Gate Valves: High Performance, High Pressure, Vacuum Service, Bubble Tight, Actuators



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

North Coast Instruments: Electric actuator refurbish and retro-fit for **All Brands**, Control enhancement, Computerized actuator maintenance history, Inspection/Repair report, Transition hardware & custom controls, Reconciliation Services, Customized Electric Control, Cabinets- Valve Actuators Interface



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