



MINNEAPOLIS 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 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

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

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

BURNS ENGINEERING **Temperature:** RTDs, Transmitters, Thermocouples

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

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

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

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

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

Magnetrol **Level & Flow Transmitters:** Through-Air & Guided Wave Radar, Ultrasonic, RF Capacitance, Thermal Dispersion, Contour-Acoustic Volume Measurement Transmitter

Level & Flow Switches: Capacitance, Ultrasonic, Float, Thermal Dispersion, Displacer, Vibrating

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

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

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

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

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

+GF+ SIGNET **Corrosion Resistant Instrumentation:** Flow, pH, Conductivity, ORP, Transmitters

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

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

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

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



Ball Valves: Severe Service: Metal and Ceramic Seated, Steam Service to ANSI 4500#



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



Control Valves: Low Flow, High Pressure, Sanitary



Control Valves: Corrosion Resistant, Globe, Grounding Rings



Check Valves: Industrial, Sanitary



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



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



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



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



Control Valves: Globe, Metal and Soft-Seated, Severe Service Trim

Positioners: Conventional, Smart, Digital, Fieldbus, Valve Diagnostic Software



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



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