

# BriceBarclay

75 years  
since 1948

## pressure



Instruments & controls for  
pressure, temperature, flow,  
level & electrical applications

## temperature



## electrical



2023

## liquid level



## regulators



## instrumentation valves



## flow meters | indicators



## valves | actuators



## piping products



## additional products



[www.bricebarclay.com](http://www.bricebarclay.com)

800.231.7174

[sales@bricebarclay.com](mailto:sales@bricebarclay.com)



# Instruments & controls for pressure, temperature, flow, level, & electrical applications



www.bricebarclay.com

800.231.7174



sales@bricebarclay.com

## Order Today, Ship Today

Orders for stock items entered before 4:30 p.m. Central Time will ship UPS the same day. We accept all major credit cards.

## In-House Shop Services

- liquid filling pressure gauges with silicone or glycerine
- converting dials to metric or feet of water
- installing flanges & u-clamps
- calibrating & certifying pressure gauges, thermometers, pressure switches, temperature switches, differential switches, transducers & transmitters
- assembling diaphragm seals & filling them with silicone or glycerine
- changing coils on lock-out relays
- attaching stainless steel or paper tags
- attaching accessories to gauges: snubbers or pulsation dampeners, PLVs, cooling elements & siphons, block & bleed valves, multi-port valves & ball valves



BB<sub>2</sub>

email us



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15 **AMRAN**

8 **Anderson Greenwood**

9 **"Apollo" Valves**

5 **ARI Industries Inc.**

3 **ASHCROFT**

7 **AW-LAKE** **NEW**  
PROCESS FLOW MEASUREMENT

13 **CATCO**

5 **CHEMIQUIP**

5 **Dansway**

5 **Dwyer**

15 **FAT-N** **NEW**

14 **ELECTROSWITCH**

12 **FAIRCHILD** **NEW**  
A rotork® Brand

8 **HABONIM**  
Industrial Valves & Actuators

15 **ISSE**  
Kanson Electronics Inc.

12 **ITT** Conoflow

11 **JACOBY-TARBOX** **NEW**  
A PRODUCT OF CLARK-RELIANCE

11 **JERGUSON** **NEW**  
A PRODUCT OF CLARK-RELIANCE

7 **KOBOLD**

10 **Koflo**

5 **MACWELD**  
machining

9 **MERCER VALVE CO., INC.** **NEW**  
"AUTO SEAT TECHNOLOGY"

7 **Micro Motion**

5 **Mid-West Instrument**

12 **Neo-Dyn**  
PROCESS CONTROL

13 **Palmer / Wahl**  
BEYOND THE SCALE

8 **Parker**

5 **Pete's Plugs**  
Peterson Equipment Co, Inc.

10 **PIPING TECHNOLOGY & PRODUCTS, INC.**

15 **Post Glover**

5 **RAY SNUBBERS™**

7 **ROSEMOUNT**

10 **rotork®**

13 **Ruelco**

12 **SENSUS**

13 **SIGMA HLR**

10 **SHURJOINT®**

15 **Simpson**

10 **THE SKINNER COMPANY**

10 **TITAN** FLOW CONTROL, INC.

12 **TRERICE**  
TRANSmitters • PRESSURE • CONTROL

12 **TRICO**

5 **TYLCK**

12 **VICTOR** **Meco**

4 **WEKSLER**

13 **WHITMAN**  
CONTROLS

6 **WIKAI**

call us 800.231.7174





### 1005 Commercial Gauge

- Ranges: 30"Hg vac to 6,000psi
- 1½", 2", 2½", 3½" dials
- 4½" dial size Model 1000
- Black painted steel standard
- ABS & SS case optional
- Bronze bourdon tube, brass socket



### 1490 Low Pressure Gauge

- Features a very sensitive diaphragm capsule to measure low pressures
- Units of measure: psi, inches of water & ounces/inch<sup>2</sup>
- Ranges: 200IW vac to 15psi
- 2½" or 3½" dial sizes
- Glass-filled polysulfone, rust resistant case
- Beryllium copper diaphragm, brass socket



### 1082 Test Gauge

- For high accuracy process applications
- For checking the accuracy of other general service gauges
- 4½", 6" & 8½" dials
- 3 case options
- 4 mounting styles
- Brass or monel tube & socket materials are available ¼% full scale accuracy



### 1020S Xmas Tree Gauge

- Rugged oilfield applications
- 4½" stainless steel case
- Ranges: 30"Hg vacuum to 20,000psi
- 316SS tube & socket
- Dry or liquid filled



### 1008S Stainless Steel Case Gauge

- All stainless steel welded construction
- 40mm, 50mm, 63mm & 100mm dial sizes
- Meets EN837-1 upon request for 63mm dial size (order variation "XER")
- MSL helium leak tested to 1X10<sup>-6</sup> ATM-cc/sec
- Available liquid filled
- Exceeds ASME B40.100 Grade B
- Ventable plug
- RoHS compliant, CRN approved



### 1009 Stainless Steel Case Gauge

- 2½", 3½", 4½" & 6" dial sizes
- Bayonet rings allow recalibration
- 1% full scale accuracy
- 4½" & 6" sizes offer a monel tube & socket as an option
- Available dry or liquid-filled



### 1209 Stainless Steel Process Gauge

- Solid front, pressure relief back
- 4½" dial, 316L SS case & ring
- Socket welded to case
- ½% of span accuracy (ASME B40.100 Grade 2A)



### 1279 DuraGauge

- Bronze, alloy steel, 316SS & monel tube & socket materials available
- Solid front, pressure relief back
- Threaded polypropylene front ring
- Ranges: 30"Hg vacuum to 30,000psi
- 4½" dial size
- ½% full scale accuracy
- Available hermetically sealed, liquid-filled or dry



### 1259 Process Pressure Gauge

- Dry case is not sealed & recommended for weather protected environment only
- Liquid filled or field fillable & Weatherproof: IP66
- Vacuum to 20,000psi
- Black epoxy coated aluminum case
- 4½" dial size
- ½% full scale accuracy, ASME B40.100, Grade 2
- Solid front, pressure relief back



### 1379 DuraGauge

- Bronze, alloy steel, 316SS, monel tube & socket
- Hermetically sealed, liquid-filled, or dry
- 30"Hg vac to 100,000psi
- Black epoxy coated aluminum case
- 4½", 6" & 8½" dial sizes
- Weatherproof
- ½% full scale accuracy
- Threaded polypropylene ring
- Solid front, pressure relief back



### 1377 DuraGauge

- Flush mounting & panel board applications
- Solid front, pressure relief back
- Bronze, alloy steel or 316SS tube & socket materials
- 4½", 6" & 8½" dial sizes
- Ranges: 30"Hg vacuum to 30,000psi
- ½% full scale accuracy
- Hinged steel, enamel-coated ring



### DuraVis Dial

- Retroreflective, fluorescent dial option
- Excellent visibility, dawn, dusk & night time
- 4½" models: 1009, 1209, 1259, 1279, 1377 & 1379
- 100mm models: T5500 & T6500



### 2008 Panel Builders Pressure Gauge

- All stainless steel welded construction
- Vacuum, compound, 0-15psi thru 0-15,000psi - Kpa, bar, kg/cm<sup>2</sup>
- Flange is welded to the case
- MSL helium leak tested
- 63mm dial size
- 1.6% full scale accuracy
- Ventable offset fill plug
- 1X10<sup>-6</sup> ATM - cc/sec
- CRN approved, RoHS compliant



### HPT Teflon™ High Purity Pressure Gauge

- Teflon™ wetted parts
- Cleaned in class 10,000 clean room
- 100% nitrogen leak tested
- Class 10,000 cleanroom packed & bagged
- For chemical delivery systems, wafer manufacturing, ultrapure water applications, semiconductor, pharmaceutical applications



### 5503 Differential Pressure Gauge

- Filtration monitoring, level & flow measurement
- Available with diaphragm seals
- Uses: refineries, chemical & petrochemical plants, water & wastewater pressure control, mining & metals
- Ranges: 10IWD to 1,000PSID
- Stainless steel case
- Dry or liquid filled
- Electric contacts optional
- Flow measurement dial optional



### 1130 Differential Pressure Gauge

- For monitoring flow rate, tank level & differential pressure for filtration
- Aluminum, brass & SS body materials, with Buna or Viton seals
- Ranges: 0/5PSid to 0/150PSid
- High differential & static pressures to 6,000psi
- Available with explosion proof switches



### Digital Pressure Gauges

- All-in-one mechanical pressure gauge, transducer & switch
- Can be password protected
- Rugged design with three case styles
- Meet ASME B40.7
- Accuracies from 0.05% to 0.5%
- 2½", 3" & 4½" dials available



### Diaphragm Seals

- Protect pressure measuring instruments from corrosives, slurries or viscous fluids & protect pressure instruments from being clogged by the process fluid
- Meet a wide variety of installation requirements
- Over 30,000 variations are possible with the types, connections & materials available



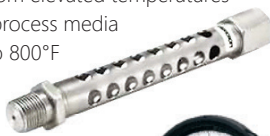
### Isolation Rings

- Protects instruments from process media
- Ring design eliminates process accumulation, assuring reliable & accurate pressure readings
- Safe, quick release option enables removal without loss of fill or process shut down
- Retrofit flange option allows easy replacement of other manufacturer models
- 360° sensing, flexible inner-liner, no process deadleg



### 2198 MicroTube™ Cooling Element

- Protects instruments from elevated temperatures
- Compatible with many process media
- Process temperature to 800°F (427°C)
- Working pressure to 5,000psi



### Low Volume Tee Fitting

- Better weight centered over diaphragm seal port reducing chance of damage
- Minimizes the amount of pressure transmitting fluid inside a seal assembly
- Effect of temperature fluctuations on an assembly with multiple instruments is greatly reduced



### A Series Mini Watertight Pressure Switch

- Field adjustable setpoint or factory set only
- Operating temperature range (-40°C to 100°C)
- Precision snap-acting micro switch element
- 316SS construction
- Ranges: vacuum to 7,500psi
- Hermetically sealed micro-switch



### F Series Explosion Proof Switch

- Facilitates mounting in panels & other installations where space is a premium
- Hermetically sealed switch element
- Sealed conduit connection eliminates condensation entering from the conduit
- Compact design



### B Series Pressure, Temperature & Differential Switch

- Satisfies most switch requirements
- A variety of precision switch elements available
- Materials of construction selected for long life
- NEMA 4 or NEMA 7 enclosures
- Hermetically sealed contacts
- Explosion proof cases available



### E2X Explosion Proof Pressure Transducer

- Flameproof, intrinsically safe & non-incendive approval for explosion-proof/hazardous applications
- FM, ATEX & IECEx approvals
- Ranges vac through 20,000 psi
- IP66/67 Ingress rating
- Wide selection of process connections Customizable configurations
- External magnetic offset & span adjustment



### E2G Pressure Transducer

- Stainless steel housing, sensor & pressure connections
- ±0.25%, ±0.50% or ±1.0% of span accuracy available
- Diaphragm available in 17-4 PH, 316L SS & A286 SS
- Wide selection of electrical & process connections
- External magnetic offset & span adjustment
- Ranges vac through 20,000psi



### G2 High Performance Pressure Transducer

- All-welded pressure construction
- Broad temperature capability
- Polysilicon thin film sensor
- High EMI/RFI rating
- Ranges 30psi through 20,000psi
- 1% total error band accuracy
- IP67 housing
- Diagnostic rails



### GC51 Rangeable Pressure Transmitter

- Up to 8 times smaller than conventional process transmitters
- NEMA 4X (IP65) aluminum die cast housing
- Ranges: 0/50 to 0/7,500psig & compound to -15/50psi
- "Loop Check" allows unit to output 4-20 mA without applying pressure
- Scaling function allows display to indicate arbitrary physical units
- Rotatable, LCD, backlit display
- 2 wire 4-20 mA output
- Stainless steel wetted parts
- "Push Button" quick range changes



### GXLdp Differential Indicating Pressure Transmitter

- TruAccuracy™ - Terminal Point Accuracy method includes non-linearity, hysteresis, non-repeatability, zero offset & span setting errors
- ±0.25% of span accuracy available for any specific range
- Field selectable outputs: 4-20 mA, 0-5 Vdc, 1-5 Vdc 1-6 Vdc, 0-10 Vdc
- Patented SpoolCal™ actuator provides in-place system calibration
- Large LCD with backlight
- Wall, panel or DIN rail mountable



### BI Series Bimetal Thermometer

- Reliable in tough environments
- Hermetically sealed
- Tamperproof
- Available 2" or 3" dial



### EI Series Bimetal Thermometer

- Maxivision® dial for parallax elimination
- 1% full span accuracy (ASME B40.3 Grade A)
- Manufactured in dry air to prevent condensation from forming inside the case
- SS, Hermetically sealed
- External adjustment screw
- 2", 3" & 5" dial sizes
- Stem lengths 2½"-60"
- Various ranges in °F & °C
- Optional every angle connection



### S5500 Gas Actuated Thermometer

- All stainless steel construction
- Direct or remote mount
- Wide selection of temperature ranges
- Dry or liquid filled
- IP65 protection
- EN 13190



### S10 Metric Connection RTDs & Thermocouples

- Temperature sensor assemblies provide accurate temperature measurement in process, industrial, medical, & life science applications
- Each assembly consists of a spring loaded temperature sensor insert, a connection head & lag extension
- Designed for DIN 43772 thermowells
- Manufactured to 60584-2, or ANSI MC 96.1
- Available with or without transmitters
- Intrinsically safe designs available



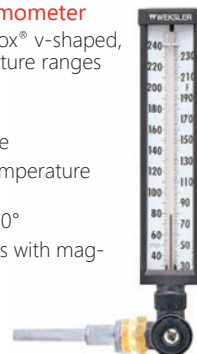
### S50 NPT Connection RTDs & Thermocouples

- Temperature sensor assemblies providing accurate temperature measurement in process, industrial, medical, & life science applications
- Each assembly consists of a spring loaded temperature sensor, magnesium oxide (MgO), insulated insert, connection head & lag extension
- Thermocouple assemblies are manufactured to IEC 60584-2 or ANSI MC 96.1, & RTD assemblies are manufactured to IEC 60751
- Optional transmitters, or terminal block
- Intrinsically safe designs available
- Explosion-proof designs available



### Industrial Adjust Angle Thermometer

- Constructed with a molded Valox® v-shaped, charcoal gray case for temperature ranges up to 550°F
- Accuracy is ±1% of full scale
- 3½", 6", 9" & 12" stems available
- Aluminum case available for temperature ranges up to 750°F
- Case & stem can be rotated 360°
- Mercury free blue liquid in glass with magnifying lens for easy readability
- Glass front



### HVAC Contractor Gauge

- For steam, water, air, oil, gas or any medium non-corrosive to copper alloys
- Offered with a 4½" corrosion resistant stainless steel case
- Easy to read dial
- Bronze/brass movement
- Soft soldered phosphor bronze tube with brass socket
- 2-1-2% full scale accuracy
- Zero adjusting screw





## Mid-West® Instrument

### 109 DP Bourdon Tube-Type Gauge & Switch

- Wide DP Range: 0-15psid to 0-6,000Psid
- Working pressures to 6,000psig (400 bar)
- Over-range protection
- Gauge housings: aluminum, brass, carbon steel & 316 & 316L stainless steel
- Bourdon tube sensing element
- Wide range of elastomers



### 120 DP Piston-Type Gauge & Switch

- DP Ranges: 0-5psid to 0-110psid
- Piston sensing element
- Gauge housings: aluminum, brass, 316 & 316L stainless steel, aluminum bronze & monel



## Dwyer

### Magnehelic® Differential Pressure Gages

- Guaranteed accuracy to 2% of full scale
- High resistance to shock & vibration
- Ambient temp from 20° to 140°F
- Used as an air filter gauge, to sense static pressure, to measure air velocity, to measure liquid, & as an orifice meter
- High performance at an economical price



### Capsuhelic® Differential Pressure Gages

- Zero & range adjustments outside of gage means no disassembly in normal service
- Gage capsule permits high-pressure usage with small differentials
- Time-proven, simple, friction-less movement permits full scale readings as low as 0.5 in w.c.
- Diaphragm-actuated versus liquid filled gage supports outdoor use



## ARI Industries Inc.

### AerOrod® Mineral Insulated Heater Cable

- Manufactured with highly compacted, high purity MgO insulation which yields a minimum wire to sheath spacing for efficient heat transfer
- Can be easily formed to meet demanding specifications
- Heater cable can be brazed or welded



### High Temperature Thermocouple

- For applications where base metal thermocouples cannot be used because of excessive temperatures or severe atmosphere
- A wide variety of wire combinations & sheath materials are available to meet the harshest demands
- Selecting certain materials, temperature measurements up to 2300°C can be achieved



## MACWELD machining

### Thermowells

- Protect direct or remote mounted temperature instruments
- Available in brass, carbon steel, 304 stainless steel, 316 stainless steel, & exotic materials
- Offered in varying lengths & process connection sizes
- Straight, tapered & stepped



### Sample Probe

- Used in the extraction of gas or liquid samples from pipelines for analysis
- Over 25 body material options with various process connections, immersion & lag lengths, & shank diameters
- Offered in threaded, flanged, socket weld, weld-in, van stone & sanitary mounting styles



### Bleed Rings

- Go between two flanges & allow for a top/bottom measurement or drain
- Allow for on site calibration, venting, & purging
- Allow you to tap the top & bottom
- No break of the process flange
- Built to ANSI flange sizes
- CRN approved
- Materials: 316/L, 304/L or A105 Carbon Steel
- For chemical & petro chemical industries



### Orifice Plates

- Provide the most reliable & accurate flow measurement for gas, liquid & steam
- Universal Orifice Plates, Special Orifice Plates & Paddle Orifice Plates available in a wide variety of materials of construction



## Pete's Plugs Peterson Equipment Co., Inc.

### Pressure/Temperature Test Plugs

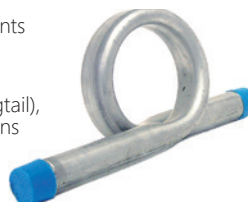
- Facilitate pressure & temperature readings on a pressurized line
- Various pipe thread sizes, lengths & materials available
- Retaining strap to the cap
- XL Series allows insulation at the test point & eliminate the need for extra fittings



## Dansway

### Instrument Syphons

- Isolate pressure instruments from high temperatures
- Condense steam
- Available in 90°, 180° (pigtail), 270° & 360° configurations
- Available in brass, carbon steel & stainless steel



## RAY SNUBBERS™

### Piston-acting Pulsation Dampener

- Protect against pulsation & prevent clogging pressure sensing instruments
- Manufactured in brass, 303SS, 316SS & monel
- Various connection sizes available



## CHEMIQUIP

### Porous Disc Pressure Snubber

- Filters particles from the process while dampening pulsations
- Available in brass, 303SS, 316SS, & monel in various connection sizes



### PLV-255 & PLV 2550 Pressure Limiting Valve

- Compact, easily installed & maintained
- Shuts off pressure to instrument if pressure rises above the pre-set value
- Restores instrument online when pressure falls below the pre-set value
- Easily adjusted with a single external screw & lock nut



## TYLOK

### CBC-LOK® Tube Fitting

- Fully interchangeable with Swagelok & Parker A-Lok
- Double collet/ferrule swaging action
- Rear collet grips the tubing, front collet provides leak proof seal



### CS-LOK® Tube Fitting

- Fully interchangeable with Parker CPI™
- Stainless steel nuts have a molybdenum disulfide coating, reducing torque & ensuring proper sealing



### Needle Valve

- Orifice sizes 0.172" to 0.438"
- Straight or angle flow patterns
- Flow coefficients (CV) 0.37 to 2.70
- Optional panel mount
- Handle options available



### Ball Valve

- Pressure systems, control panels, test stands, labs, shops, hydraulic systems, pilot plants, chemical plants, refineries, power plants, food processing plants, paper mills & gas companies



### GP Series Stainless Steel Valve

- Integral tube fitting with either CBC-Lok® or CS-Lok® designs
- Leak tested with nitrogen at 1,000psi
- Blow-out proof stem



## 111.10

### Commercial Pressure Gauge

- ABS plastic case
- 1½", 2", 2½", 3½" & 4" dial sizes
- Copper alloy tube & socket
- Economical, general service gauge



## 213.40 Hydraulic System Pressure Gauge

- Designed for severe service
- Cast brass case
- 2½" dial with ASME Grade A ±2/12% accuracy
- 4" dial with 1% accuracy
- Copper alloy internals
- Glycerine filled



## 23X.34 Process Gauge

- LM models are field fillable without modification
- Solid front, blowout back thermo-plastic case
- 4½" dial size
- Accuracy of ½%
- Dry or liquid-filled
- Brass, SS or monel tube & socket available



## 213.53

### Liquid Filled Pressure Gauge

- Economically priced
- Stainless steel case
- Accuracy of ±2/12%
- Copper alloy internals
- Liquid-filled



## 23X.53 Pressure Gauge

- 2" & 2½" accuracy: ± 2/12% of span (ASME B40.100 Grade A)
- 4" accuracy: ± 1.0% of span (ASME B40.100 Grade 1A)
- Field fillable
- Pressure ranges to 15,000psi
- All stainless steel construction
- Shock resistance & load-cycle stability



## 23X.54 Pressure Gauge

- Stainless steel gauges
- May be recalibrated
- 2½" dial with ASME Grade A ±2/12% accuracy
- 4" dial with 1% accuracy
- Dry or liquid-filled



## 23X.30 Solid Front Stainless Steel Case

- Available with a 316SS case
- Solid front, blow out back
- Pressure ranges to 20,000psi
- For corrosive environments & gas or liquid media that will not obstruct the pressure system



## 233.55 Panel Builder Gauge

- Suitable for corrosive environments
- Compare to McDaniel K Series
- 2½" dial, LBM connection
- 316SS wetted parts
- Glycerine filled
- Equipped with a socket restrictor



## FlexWindow

- Internal pressure compensation, no need for a vent plug for ranges ≤300psi
- Made from clear silicone rubber
- Resists high temperatures >300°F
- High UV & chemical resistance
- No yellowing, scratch & crack resistant, repels water
- 100% case fill = No bubbles!
- Easy panel mounting
- Increased ingress protection IP66



## 700.04 Differential Pressure Gauge

- For applications requiring high differential/static process pressures
- Measures pressure drops across filters, strainers, separators, etc.
- Sizes 2½" & 4½" (63.5 & 114.3mm)
- 6,000psid max working pressure
- Dry or liquid-filled
- DP ranges to 100psid
- Accuracy ±2% of span (increasing pressure)



## CPG1500 Precision Digital Gauge

- Used in oil & gas industry, maintenance & service facilities, calibration service companies
- Ranges: 0-150,000psi (0-10,000 bar), vacuum & absolute
- Simple calibrations on site
- Pressure test
- Accuracy: to 0.025 %
- Intrinsically safe version
- Data logging with up to 50 measured values per second
- Communication with Wika-Cal software over Wika-Wireless



## SealGauge Industrial Gauge

- Chemical seal & pressure gauge in one
- For low pressure applications
- Used in chemical, petrochemical, pulp & paper, & food processing industries, & in water treatment, sewage treatment plants, & electric power plants
- Compact & economical



## Diaphragm Seal

- Protect bourdon tube pressure gauges, switches or transmitters from corrosive, contaminated, hot or highly viscous process media
- Many variations available



## Bimetal Thermometer

- Sturdy, corrosion resistant 304SS case & bezel
- External reset on process grade bimets
- Meets or exceeds ASME B40.3
- Anti-parallax, matte, heavy gauge aluminum dial
- Hermetically sealed
- Stem lengths to 72"
- ¼" standard stem diameter
- 1% full scale accuracy



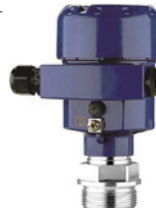
## Twin-Temp Thermometer

- Local mechanical output with remote electrical signal in one
- Back or adjustable angle connection
- Dial sizes from 3" to 5"
- Electrical output configurable with thermocouple, RTD or 4-20 mA output



## CPT-20 Process Transmitter

- Configuration via EDD & DTM in accordance with the FDT concept, e.g. PACTware
- Robust & highly accurate
- Ex protection per ATEX & IECEx
- For applications to SIL 2 (SIL 3)
- Dry ceramic measuring cell
- Seven different case variants



## UPT-2x Process Transmitter

- Available with HART protocol
- Multi-functional display
- Simple menu navigation
- Large, rotatable LC display
- For process technology, machine building & plant construction, control technology, pharmaceutical & food industries



## A-10 Industrial Pressure Transmitter

- For extreme conditions in process control & automation, hydraulics, pneumatics, & machine controls
- Rugged design provides resistance to vibration, shock, wide temperature variations, & RFI
- All stainless steel welded measuring cell eliminates the need for soft sealing materials



## E-10 Explosion Proof Pressure Transmitters

- NACE MR0175 compliant
- FM-approved explosion proof Class I
- Division 1 hazardous locations
- Available with 4-20 mA, 2-wire or 1-5 V, 3-wire low power output signals
- Retrofits many existing applications



## IS-3 Pressure Transmitter

- For applications from general machine building to high-pressure applications
- For chemical, petrochemical, oil, natural gas, & machine building
- All stainless steel wetted parts
- Approvals: ATEX, IECEx, FM & CSA, as well as a SIL rating per IEC 61508 / IEC 61511 for use in the process industry
- Available with measuring ranges up to 15,000psi, or 6,000 bar



## S-20 Industrial Pressure Transmitter

- Available output signals include 4...20 mA, 0...10 VDC, 1...5 VDC & more
- High accuracy, robust design
- Large number of options available
- Ranges: to 20,000psi & 1,600 bar
- Non-linearity of up to 0.125 % B.F.S.L.
- Many industry standard electrical connections & common USA & international process connections available





## Wireless Pressure Gauge

- Piezoresistive sensor technology replaces mechanical components to deliver up to 10 years of maintenance-free operation
- Measurement range to 4,000 psi (275.8 bar) Gage, Up to 10,000 psi (689.5 bar) Absolute
- 4½" (114 mm) Display/Interface
- Engineered polymer, NEMA® 4X, & IP66/67 housing material
- Overpressure protection up to 150 times scale range
- Wireless HART® Protocol
- Resist common failures
- Ensure reliable readings



## 3051S Coplanar Pressure Transmitter

- Up to 0.04% reference accuracy
- Best-in-class & unmatched dynamic performance
- Advanced PlantWeb® functionality
- Patented Rosemount Coplanar technology offers optimized performance as a pressure, DP Flow & DP Level solution
- 0.025% accuracy
- Integrates with 4-20 mA HART®, WirelessHART®, FOUNDATION™ fieldbus protocols f
- SIL 2/3 certified to IEC 61508 (via 3rd party) & prior-use certificate of FMEDA data



## 3051CFC Compact Orifice Plate Flowmeter

- Complete flow assemblies are leak-tested & calibrated to reduce leak points up to 70% & simplify installation
- 4-20 mA HART®, WirelessHART®, FOUNDATION™ Fieldbus, PROFIBUS®, 1-5 V Low Power HART® communication protocols
- Primary element available in 0.5 - 12 in. (15 - 300 mm)
- Easy-to-use local operator interface
- Basic & loop Integrity diagnostics
- SIL 2/3 certified to IEC 61508 (via 3rd party) & prior-use certificate of FMEDA data
- 316SS process wetted material



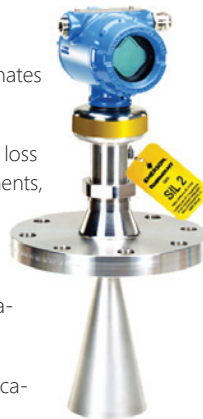
## 5300 Guided Wave Radar Level Transmitter

- Direct switch technology gives increased sensitivity, high reliability, & long measurement ranges
- Works proactively with your level instrumentation
- Offers greater level measurement reliability
- Dynamic vapor compensation for improved plant heat rate
- Verification reflector for remote proof-testing & unique level transmitter verification
- Ultra-thin layer detection through Peak-in-Peak technology



## 5408 Level Transmitter Non-Contacting Radar

- Unique PTFE seal design eliminates the need for o-rings
- Low 12V dc lift-off voltage
- Immune to intermittent power loss
- Model tailored to SIS requirements, certified to IEC 61508 SIL 2
- Solid measurement with unique solids algorithm
- Process seal antenna for applications with heavy condensation & aggressive medias
- Tri Clamp connection available
- 3-A certified for hygienic applications



## 3144P Temperature Transmitter

- Dual & single sensor capability with universal sensor inputs (RTD, T/C, mV, ohms)
- 4-20 mA /HART® protocol, FOUNDATION™ Fieldbus protocol
- Dual-compartment field mount housing
- Large LCD display with percent range graph
- Basic diagnostics, Hot Backup™ capability, sensor drift alert, thermocouple degradation, min/max tracking
- SIL 2/3 certified to IEC 61508 by an independent 3rd party, hazardous location, marine type



# Micro Motion

## 5700 Field-Mount Transmitter

- Best response in challenging applications, such as meter proving, filling & dosing & batching
- Capture short- & long-term insight about process events, fluid quality & measurement stability
- Monitor more process measurements with up to 5 fully configurable I/O channels
- Perform fast, flexible installations with a native Ethernet architecture
- Quickly check meter health in less than 90 seconds with Smart Meter Verification



## F300S Coriolis Flow Meter

- Highly accurate mass volume flow & density measurement in applications requiring a compact, drainable design
- Improve measurement & tracking with extensive process & meter diagnostics
- Broad range of meter approvals & certifications
- Fastest response rates & accurate batch & process measurement
- Real-time & in-process measurement integrity assurance with Smart Meter Verification



## TCMH 0450 High Pressure HYDROGEN Coriolis Mass Flow Meter

- World's first MI-002 / OIML137 certified for hydrogen dispensing
- Pressure ratings: 6,000psi, 10,000psi & 15,200psi
- U-shape tubes made from Sandvik® Alloy HP 160 eliminate hydrogen embrittlement in Hydrogen fueling stations



## TCM "Classic" Coriolis Mass Flow Meter

- Meets general industrial requirements with out-of-the-box ease of use
- Economically priced
- TCE 8000 transmitters
- ±0.3% (option: up to ±0.1%) of flow rate
- 3-point calibration with excellent repeatability



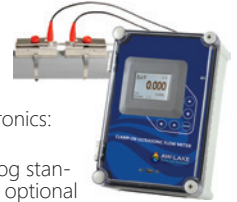
## Variable Area Flow Meter (Rotameter)

- Low cost, & available in many different materials of construction
- ±2.0% of full scale
- Aluminum & brass meters: 3,500psig (240 bar) SS meters: 6,000psig (410 bar)
- 0.1-150 GPM (0.5-550 LPM)
- Max temp: 240°F (116°C) & optional 600°F (316°C)



## CUTT Clamp-on Ultrasonic Flow Meter

- Measurement Principle: Transit time ultrasonic
- Line Sizes: ½" to 48"
- Temperature Rating: Transducer: -40°F to 300°F; Electronics: -5°F to 140°F
- Outputs: 4-20mA/0-5V Analog standard; Modbus RTU or HART optional



## JV-BB Next-Gen Positive Displacement Flow Meter (Gear Meter)

- Tighter machining tolerances, higher resolution, higher pressure rating, & improved accuracy
- ±0.5% wth 30cP fluid, ±0.25% optional with select sensors
- 0.005-120 GPM, 7.2-172,800 GPD
- Up to 6,000psi
- 7-point logarithmic calibration
- Wide variety of output options



## BGN - Flow Meter & Counter

- Full metal variable area flow measurement, monitoring, adjusting & control for liquids & gases in difficult or rough operating conditions
- Variety of wetted materials
- Magneto-resistive signal transmission



## PAS - Heavy Duty Pressure Transmitter

- Microprocessor based high performance transmitter with scalable pressure calibration & output signal
- Data configuration with HART®
- Automatically compensates for ambient temperature & process variables



# Anderson Greenwood

## Hand Valves - Hard & Soft Seated

- Trouble-free life with easy maintenance
- Standard with a variety of end connections, seat materials, & stem packing
- Hard seat valves provide long life in the severe operating conditions of oil & gas production
- Bubble-tight closure
- Soft seat valves offer a replaceable soft seat that gives premium tightness at closure, even in dirty service



## Multi-Port Gauge Valve

- Materials: CS, SS, Monel®, Hastelloy®, Duplex and other exotic materials
- 1/2" to 3/4" threaded, welded & flanged connections available
- Many different orifice sizes available
- 10,000 psig max pressure
- 1000 °F max temp
- Metal & soft seats



## Multi-Port Block & Bleed Valve

- For gauge isolation, calibration & venting
- Globe pattern or straight-thru bore designs
- Wide range of standard gauge accessories allows flexibility for individual installations
- CS, SS, Monel®, Hastelloy®, Duplex & other exotic materials available
- A variety of end connections



## Mini Valve

- Safe, compact, & economical
- Valve seating is interchangeable between hard or soft without changing bonnet assembly or removing valve from installation
- Excellent for isolation
- Long valve life



## H2 HYDROGEN Instrument Hand Valve

- Light weight, compact, maintenance-free design
- Positive shutoff performance, non-rotating stem tip
- Positive double-block arrangement protects workers after they isolate process pressures
- Safety weep holes for packing & process connection integrity
- Color-coded bonnet collar tags
- Many configurations available
- Low fugitive emissions stem
- Up to 15,000psi
- ISO19880.3 valves: gaseous hydrogen fueling stations



## A27M Instrument Isolation Gauge Block

- An isolate/vent gauge block for pressure gauges/instruments with screwed connections
- Gauge adaptor allows instrument to be positioned anywhere in a 360° arc
- Compact design provides lower installation costs & fewer potential leak points
- Vent valve fitted with anti-tamper facility
- Integral syphon available on instrument connection



## DP, FLOW & Level Manifolds

- CS, SS, Monel®, Hastelloy®, Duplex & other exotic materials available
- Process connections 1/2" threaded or flange
- Models available for every kind of DP instrument including conventional three & five valve manifolds, & models for special applications
- Metal & soft seats



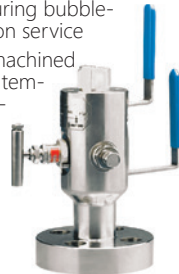
## PTM/PT7 Static Pressure Manifolds

- Two valve calibration manifolds with a choice of metal & soft seats for static pressures to 6,000psig
- Shutoff valve, tee, calibration valve & all immediate tubing/fittings available in one simple manifold
- Economic, compact design
- Fewer leak points
- Back seat stem prevents blowout



## Keyblok Manifold

- Heavy duty ball & globe pattern in block & bleed, & double block & bleed configurations
- Tested to fire safe standards, ensuring bubble-tight shutoff on venting or isolation service
- Primary isolation ball valves are machined for high performance pressure & temperature ratings, & tested as standard to be fire safe & anti-static
- Flanged connections available on inlet or inlet & outlet
- One-piece body eliminates leak points, reduces envelope size & weight along with reducing NDE requirements



## Monoflange Valve

- Heavy duty globe pattern valves, designed & tested to fire safe standards, ensuring bubble-tight shut-off on isolation & vent service
- Gauge adaptors allow flexible positioning of gauges & instruments with a choice of designs
- Outside screw & yoke (OS&Y) with investment cast yoke & bolted bonnet provide high mechanical strength & long cycle life
- Inlet flanged connections available in a choice of sizes & ratings
- One-piece ultra-slim forged body



## AccuMount Manifold

- Remote mount & direct mounting for differential & gauge measurement applications
- Multiple connection arrangement options
- Back-seating prevents stem blowout & metal-to-metal secondary stem seal in full 'open' position
- Packing below stem threads to prevent corrosion & contamination of stem threads
- 316 SS product stems are ENC plated for superior strength & long term reliability
- O-ring seal with dual Teflon® back-up rings that provide secondary seal
- Patented Teflon® stem packing reduces operating torque



## Hermetix™ Zero-Stem-Leak Valves

- Meets ISO15848-1
- Tested according API641
- Field proven for millions of cycles
- Up to 500,000 cycles of operation with no maintenance



## Cryogenic Valves

- Extended bonnets prevent cryogenic liquids from reaching the stem packing
- 3-piece & flanged designs available
- Brass, SS or monel materials available

## H29 HYDROGEN Ball Valves

- For high cycle use in fueling, storage, & manufacturing systems
- Tested to ISO19880:2018 for gaseous hydrogen
- Clean fire-safe construction guarantees no graphite contamination
- 10,000 / 15,000psi



## Trunnion Mounted Ball Valves

- Tolerates heavy loads applied to valve trim that result from large sizes, high pressures & dynamic temperature cycles
- Endures the harsh conditions of the oil & gas & petrochemical industries
- Certified to API 6D (Habonim monogram #6D-1278) with a valve wall thickness that is in full compliance with ANSI B16.34



## Compact 4 Piston Pneumatic Actuator

- Generates twice the torque with less wear of moving parts to comparable 2 piston designs
- Most rugged actuator on the market
- Wide options of fail/safe combinations, particularly in low air operating pressure
- Reduces average air consumption by 50%
- Control valve with V-Port/V-Ball



## 7000 Series 2 & 3-Way Solenoid Valves

- Standard features not offered in competitive lines
- Many electrical options available with integrated coils
- Variety of mechanical options
- Constructed with elastomeric & plastic seal materials
- Bubble-tight operation
- Most valves utilize a single seal material whether a plunger seal or a flange seal
- Commonly compatible with air, inert gases, & petroleum products



## PA Series Angle Body Valves

- 2-Way pneumatically actuated angle seat valves
- Excel in applications that demand high cycle rates and counts, high temperatures to 356°F, and challenging media types like steam or slurries with particles
- Economical, corrosion resistant, & long service life
- 304SS or 316LSS bodies, aluminum or 304SS housings





# "Apollo" Valves

## Improved Retainer Seal Weld Option

- New welding technology makes seal welding more economically feasible
- Permanently secures body & retainer
- Provides additional protection against vibration
- Available for 72, 73A, 76, 76F & 89 series ball valves in sizes from 1/4" to 3"



## 70-100 2-Piece Bronze Ball Valve

- Rated to 150psig saturated steam (except for 3-way & Saturn valves)
- RTFE seats, seals & stem bearings
- Nearly 30 options available
- Rated to 600psig WOG, cold non-shock
- Blowout proof stems
- Chrome plated brass ball
- Sizes from 1/4" to 4"



## 73A-100 2-Piece Carbon Steel Ball Valve

- Feature nitride corrosion protection & adjustable packing gland
- Options: 316SS ball & stem & NACE trim
- Sizes from 1/4" to 2"



## 76-100 2-Piece Stainless Steel Ball Valve

- Feature threaded, socket & butt weld connections
- Blowout proof design & investment cast components
- Available in sizes from 1/4" to 3"
- Meet NACE MR-01-75



## 70-600 3-Way Diverter Valve

- For tank selection or fluid transfer applications
- Large ports & a 400psig WOG rating
- Available with threaded or solder ends
- Sizes from 1/4" to 2"



## 86A-100 3-Piece Stainless Steel Ball Valve

- Threaded, Full-port, ANSI Class 600
- Fully machined ISO 5211 mounting
- Anti-blowout bottom entry stem
- NACE MR0175 (2000 edition)
- Lockable: open or closed
- Swing-out center section
- Vacuum service to 29in of Hg
- Anti-static ground ball & stem



## 88A-200 Flanged Ball Valve

- Class 150 full-port carbon valves
- Split body for easy repair
- Includes grounding, locking device & ISO 5211 actuator mounting pad
- 1/2" - 12", with full standards compliance



## 84/85 Standard Port 3-Piece Ball Valve

- Less expensive than a full port valve
- Flow through this valve is one pipe size smaller than the valve's pipe size resulting in slightly restricted flow
- When maximum flow is not a concern
- Socket-weld or threaded
- Stainless or carbon steel



## Top Entry Ball Valves

- Available configured to withstand temperatures from -150°F to 1,000°F & pressures from vacuum to 1,500psig
- Available in ASME Class 150, 300 & 600, in sizes from 1/2" to 12"
- Inline repairable & built to last
- Offered in carbon steel, duplex, incol, hastelloy, monel & titanium



## Top Entry Cryogenic Ball Valves

- Standard & full port
- Self-adjusting seats: compensate for tear & temperature fluctuation
- Spring loaded low pressure seals
- Built-in antistatic feature
- Simplified in-line serviceability
- Minimal potential leak paths
- ISO 5211 mounting pad
- Easy Maintenance



## Pneumatic Actuator

- Rack & pinion design
- Spring return & double acting versions are available
- Patented universal shaft adapters make it easy for direct mount to Apollo butterfly valves
- ISO 5211 interface dimensions & NAMUR solenoid & accessory interface dimensions



## High Performance Butterfly Valves

- Class 150 & 300 2"-24"
- Class 600 3"-12"
- Extended neck allows for 2" of insulation
- Double offset design
- ISO 5211 mounting pad
- Soft seat & fire safe
- Lug & Wafer styles
- WCB CS & CF8M SS materials available



## Cast Iron Gate, Globe & Check Valve

- Bolted bonnet construction
- Factory equipped with die-formed graphite stem packing which provides tight shut-off under a wide range of service conditions



## High Capacity Cast Bronze Gate, Globe & Check Valve

- Multi-turn
- Suitable for a wide range of applications including HVAC, potable water irrigation & OEM
- Completely manufactured in the USA



## Bronze Safety Relief Valve

- For steam, air/gas service
- Standard features include stainless steel springs, tapped drain connections & Teflon soft seat
- Sizes 1/2" through 2 1/2"
- Set pressures to 300psig at 422°F



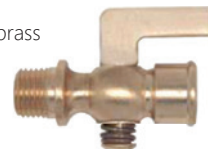
## Ball-Cone Check Valve

- Resistance to chemicals & corrosion
- Reinforced ball-cone check & stainless steel springs
- Bronze: available in sizes 1/4" to 3"
- Stainless steel: available in sizes 1/4" to 2"



## 41-470 Air Cock

- Available in satin or polished brass
- Economical
- Spring bottoms standard to 80psi
- Nut bottoms optional to 200psi



## 20-250 Water Gauge

- Heavy pattern bronze water gauges
- For all types of liquid verification
- Rated to 400psi at 100°F & 200psi at 400°F
- Equipped with ball checks in the event of glass breakage
- Available in 1/2" & 3/4" MNPT connections
- Available in stainless steel



## 1400 Series Threaded SS Safety Relief Valves

- Fully guided disk keeps disk aligned
- "Auto Seat Technology"
- Open, Close, Seat & Seal
- Pop action relief allows valve to go to full lift at set pressure
- Mechanical stop prevents wear on parts
- Low rated & fully guided spring
- ASME Boiler & Pressure Vessel Code, Sec. VIII Div. 1
- Available in "B" orifice



## 9100 Series Flanged Safety Relief Valves

- Incorporated features of "Auto Seat Technology"
- Fully guided disk keeps the disk properly aligned
- Low rated & fully guided spring
- Open, Close, Seat & Seal
- Mechanical stop prevents wear on parts
- Pop action relief allows valve to go to full lift at set pressure
- ASME Boiler & Pressure Vessel Code, Sec. VIII Div. 1
- Available in "B" orifice



## CVA - Control Valve Actuator

- High accuracy & repeatability
- Comparable life to pneumatic operators
- Comprehensive data logging
- High performance, continuous modulation duty
- Fail safe
- Electrically powered
- HART, Foundation Fieldbus, Profibus & other bus compatibility



## CMA

### Compact Modulating Actuator

- Replaces spring diaphragm actuators
- Continuous, unrestricted duty cycle
- Brushless DC motor
- ATEX, FM & CSA approvals
- Digital communication options
- Fail safe option available
- Linear, quarter-turn & rotary actuators

## IQ3 - Third Generation Actuator

- Advanced dual stacked display with configurable datalogger functionality
- Separable gearbox/thrust base across the range
- High reliability, solid-state controls
- Simple, robust absolute position sensor with high reliability & accuracy
- Real-time status reports
- Setting tool with Bluetooth® connection
- Simplified torque sensor
- Intuitive user interface



## RCEL Series Actuator

- Standard enclosure IP-67, NEMA 4, 4x
- Manual override hand/auto de-clutch lever, automatic reset when motor is energized
- Squirrel cage, totally enclosed motor
- ISO-5211 mounting standard
- Wormgear drive for longer life & low maximum noise level of 50dB



## LA-2000 Series Damper Control Actuator

- For reliable positioning of dampers, combustion controls, gates, diverters, or hydraulic variable speed drives
- Variety of speeds, thrusts, motors, voltages & control options
- Internally geared to produce up to 1,600 lbf (7,117 N) of thrust
- Self-contained, bi-directional, linear actuators



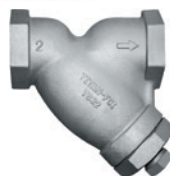
## SM-6000 Series Damper Control Actuator

- Dampers: ID & FD inlet vane, secondary air, windbox, re-heat air, flue gas recirculation, booster fan, cold/hot, & tempering air
- Torque range up to 35,256 Nm (26,000 lbf.ft)
- Continuous unrestricted modulating duty



## YS81 WYE Strainer

- Flanged ends, flat faced
- Precision machined seats
- Bolted cover, plugged blow-off
- Meets lead free requirements
- ANSI Class 600, ASTM B148 body



## TS54-AB WYE Strainer

- Bolted cover, plugged blow-off
- Meets lead free requirements
- Flanged ends, flat faced
- Precision machined seats
- ANSI Class 150, ASTM B148 body



## BS85 Simplex Basket Strainer

- Carbon & stainless steel
- ASME Class 150
- Used in horizontal pipelines
- Flanged ends (RF)
- Many straining element options
- Large capacity straining
- Self-cleaning option



## DS596 & DS696 Duplex Strainer

- Carbon & stainless steel
- ANSI Class 150
- Dual-ball diverter design
- Flanged & threaded
- Three-piece body
- Reduced in-line maintenance



## Basket & Cone Temporary Strainer

- Inexpensive protection for costly valves, pumps, meters & mechanical equipment
- Diameter holes of 1/8" on 3/8" centers is the standard perforation but most sizes & varieties available
- Standard materials are SS & CS
- Other materials available



## CV42 Wafer Style Check Valve

- Dual disc check valves
- Carbon & stainless steel
- Quick closure reduces water hammer
- Fugitive emission design
- Resilient & metal seats



## Static Inline Mixers

- Clear PVC, Gray PVC, SS, Kynar® PVDF, PFA
- Stratos™ Tube Mixers



## Custom Static Mixers

- CS, SS, Metal Alloys, PVC, PTFE/PFA, Kynar® PVDF, Fiberglass
- Sanitary / Hygienic
- Hybrid steel static mixers
- Wafer mixers



## Chemical Injection Quills

- Ensure chemicals are evenly dispersed & prevent channeling down the pipe wall
- 3" to 8" long stingers
- Female by male NPT



## Models EM & PL Emergency Pipeline Repair Clamps

- Designed to be installed quickly & under pressure without interruption of service
- Used for repairing pit holes, splits & corrosion leaks
- Nodular iron clamps repair clamps
- For both steel & cast iron pipelines



## Model PS Pressed Steel Repair Clamps

- For repairing pitted & corroded pipelines at a low cost
- Heavy enough to outlast the pipe
- Flexible enough to conform to the pipe surface



## Stainless Steel Band Clamps

- Stops pit-hole leaks quickly
- Specially compounded gasket
- Bolts fit lugs without removing the nuts



## PIPING TECHNOLOGY & PRODUCTS, INC.

### Hold-Down Pipe Clamps

- Used in applications to either anchor the pipe into position or to permit axial movement of the pipe
- Anchor type hold-down for pipeline, Arrestor type hold-down & hold-downs for lateral restraint available
- Slide plates such as PTFE, 25% glass filled or graphite can be incorporated to reduce friction between the pipe & clamp



## SHURJOINT®

### Model Z05 Rigid Couplings

- Angle-pad design allows coupling housings to slide along bolt pads when tightened
- For moderate pressure piping services: fire mains, long straight runs & valve connections
- Offset clamping provides a rigid joint which resists 'snaking' on long straight runs



### Model XH-Extra Heavy Rigid Couplings

- For high pressure services up to 1,000psi
- Supplied with standard C-shaped gasket & heavy duty bolts & nuts
- Can be installed on standard roll- or standard cut-grooved pipes



### Model C-7 Outlet Couplings

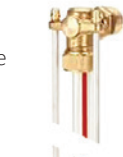
- A joining device with an integral reducing outlet, eliminating the need for a mechanical tee or a reducing tee & couplings
- Available with grooved, male threaded or female threaded outlets
- For fire sprinkler services & applications to 300psi depending on size & schedule of pipe being used





### Tubular Glass Gage Valves

- A complete line of brass, bronze, and stainless steel for economical service are available
- Standard straight-through flow design features a durable cast aluminum wheel
- Connection of 1/2 or 3/4 NPT available



### No. 125 Standard Gage Valves

- 1/2" & 3/4" non-union rigid vessel connection
- Straight pattern body
- Plain closing stem
- Stainless steel ballcheck to shut-off in event of a tube breakage
- Valves can be used with 4 guard rods
- Maximum working pressure dependent on length & resultant pressure rating of glass



### No. 146 Safety Ballcheck Valves

- Integral Bonnet, Offset Body, Non-Union Gage
- Valve bodies are designed with gage connection offset 7/8" from the centerline of the vessel connection
- Removing the plug, the interior of top and bottom connected gage may also be swabbed without disassembly
- Design incorporates stainless steel stems & ballchecks



### R-20 & T20 Armored Glass Gages

- Recessed gasket seat in chamber & cover
- Tempered Borosilicate glass conforming to BS3463, JIS B8211 & DIN 7081
- NACE MR0175 & MR0103 wetted parts
- All parts ASTM & ASME B31.3
- ABS Certified
- Shrouded carbon steel covers protect glass edges
- All gages feature a continuous, one-piece chamber regardless of length



### RW-400 Weld Pad Liquid Level Gages

- Pressure up to 400psi at 400°F
- Available with reflex type glass only
- Features a 2-hole design which allows fluid to flow freely through the gage
- Welded directly to the vessel
- User must determine if acceptable for ASME Sec. VIII
- Recessed gasket seat in pad only
- Tempered borosilicate glass conforming to BS3463, JIS B8211 & DIN 7081
- Wetted parts conform to NACE MR0175 & MR0103



### W-20 & W300L Weld Pad Liquid Level Gages

- Available in both reflex & transparent types
- Economical liquid level indication for non-critical applications
- Applied directly to tank
- User must determine if acceptable for ASME Sec. VIII
- Recessed Gasket Seat in Chamber and Cover
- Tempered Borosilicate Glass conforming to BS3463, JIS B8211, & DIN 7081
- Wetted Parts conform to NACE MR0175 & MR0103
- All parts listed in ASTM & ASME B31.3



### Magnicator® Magnetic Level Indicator

- Magnet assembly in the float is coupled to an indicator, which is mounted externally to the gage column. Assembly is completely isolated from the process liquid
- Provides improved visibility, reduced maintenance, & eliminate leak paths associated with sealing glass
- Indicator flags rotate as the float magnet assembly moves up & down the chamber providing highly visible indication the level is inside the vessel



### MGWR Magnicator with Guided Wave Radar

- Measurement independent of density, conductivity, dielectric constant & temperature
- Pressure ranges from full vacuum up to 3500psig (240barg) for MGWR or 5,802psig (400barg) for GWR chamber alone
- Measurement unaffected by foam or turbulent surfaces
- Process temperatures from -328°F (-200°C) to 842°F (450°C)
- Models available for interface applications; both total & interface level can be provided on one HART® signal
- Models available with gas phase compensation for steam applications
- Communication Protocols: 4-20 mA SIL HART®, & Fieldbus Foundation™ (no local display)



### JMT Series Magnetostrictive Transmitter

- Can be mounted on almost any chamber combination, including schedule 160, without sacrificing reliability
- Designed to work & be fully configurable with generic HART
- Developed for ease of installation, setup, & connectivity
- Process Temperature -300°F to 700°F (-185°C to 372°C), Insulation, safeguards required for temps over 350°F (176°C)
- Dual float functionality (interface & total level)
- Sensing lengths from 12 inches (305mm) to 360 inches (9 meters)



### Magnicator Standard Cylindrical & High Pressure Spherical Floats

- Strongest magnetic field of any magnetic level indicator
- Unique design uses two 360° annular Alnico 8 ring magnets with opposing north poles
- Opposing magnetic poles project concentrated flux lines away from the outside diameter of the magnets
- Forced deflection creates a field stronger than any other float magnet arrangement
- Strong north magnetic fields activate flags, switches & transmitters with certainty
- Cylindrical style floats are standard
- Hermetically sealed high pressure spherical floats are available for pressure up to 3,500psig (241barg)
- Carrier-style with open magnets are available for low temperature, non-acidic applications



### Flanged Bulls-Eye Sight Flow Indicators

- ASME Class 150, 300, 600, 900, & 1500 models
- Plain, flapper, rotor, drip, or flutter indicators
- Tempered borosilicate glass
- ASME B16.5, B16.24, & B16.1 connections
- Units are machined & assembled in an ISO-9001 fully automated facility
- Wetted components meet NACE MR-01-75 / ISO15156-1 requirements
- Stainless steel engraved identification faceplate



### Non-Flanged Bulls-Eye Sight Flow Indicators

- Sight flow indicators for threaded, socket weld, butt-weld, and other non-flanged systems
- ASME Class 150, 300, 600, 900, & 1500 models
- Plain, flapper, rotor, drip, or flutter indicators
- Connections per ASME B1.20.1
- Borosilicate glass
- Machined & assembled in a fully automated ISO-9001 facility
- Wetted components meet NACE MR-01-75 / ISO15156-1 requirements
- Stainless steel engraved identification faceplate



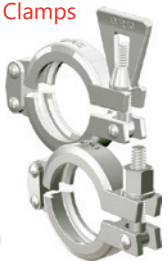
### Hy-Sight Hygienic Sight Flow Indicators

- Highest pressure rating, & can replace bulls-eye units to improve cleanability while saving space & cost
- ASME BPE SF4 (15Ra µin mechanical & electropolished) wetted surface finish
- Hygienic clamp connection
- Surpass CIP & SIP requirements
- Full vacuum to 300psig (20.7bar)
- Provide maximum process visibility
- FDA & USP Class IV compliant seals
- 316L SS (standard), Hastelloy C22, Hastelloy C276 & AL6XN available



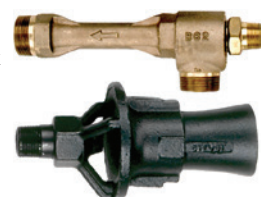
### GRQ 316SS Engineered Hygienic Clamps

- For sanitary applications
- Large clamp channel profile & double-pin hinge provide superior sealing for specialty rupture disc gaskets of all materials
- Flexibility for challenging alignments, & uniform radial load
- Seal gasket with less torque, and decrease change of gasket intrusion



### In-Line & In-Tank Eductors

- Superior flow paths for optimum performance
- Rugged construction assures reliability in demanding applications
- Decrease costs as there are no moving parts and require no direct power.
- In-line eductors are the next generation of jet pumps, ejectors, and venturi pumps, providing in-line mixing, pumping, or heating in various process lines
- In-tank eductors, or Tank Liquid Agitators (TLAs) use the supplied energy for mixing, blending, heating, aeration, or solid suspension as required





### Type 'SGL600' SS Regulators

- Inlet pressure rating of 4,350psi
- Maximum outlet pressure of 300psi
- Complies with NACE MR-01-75
- Compact design
- 1/4" NPT ports



### Type 'P' Pressure Regulators

- Comparable to Fisher 1301
- Inlet gas pressures of 5,500psi
- A variety of outlet pressures up to 500psi are available
- Standard features: brass case & rotatable seat block, which extends the operational life of the regulator



### Type 'P' Nickel Plated Pressure Regulators

- Provide dependable regulation to reduce high inlet pressures to working pressures
- Accurate regulation & pressure control is uniform under constant or interrupted gas
- Electroless nickel plated models available to control gases laden with hydrogen sulfide



### L250 Pressure Regulators

- For industrial & general fabrication, light fabrication, repair & maintenance, structural steel fabrication
- Delivery Range 2-15psig
- Outlet Gauge 0-30psig
- Inlet & Outlet Ports 1/4" NPT (F)



### Type 'B' Pressure Regulators

- Delivery ranges: 0-20psi & 0-160psi
- For mid-range pressures & flows
- Economy regulators
- Rugged intermediate size
- Max inlet pressure is 3,000psig
- 1/4" NPT female ports
- 2" effective diaphragm size



NEW

### M65 Filter Service Regulators

- General purpose service regulator with an integral 5 micron filter within its dripwell bowl
- Wider port to port mounting dimensions
- Max supply pressure: 300psig
- Three output pressure ranges from 0.5-3ppsi up to 2-120psi
- Offers up to 25 SCFM, 42.5 m3/hr flow capacity



### TM70 Subminiature Pressure Regulators

- Controls a pressure signal for pneumatic instrumentation applications
- Miniature regulator ideally suited for applications with limited space
- Five set point pressure ranges from 0-5psi up to 2-100psi
- Brass bonnet & valve body
- Excellent choice for use in sensitive applications



### FR95 Airpak Filter Pressure Regulators

- Compare to Fisher 67AFR or 67CFR
- Provides clean, regulated air pressure to instruments & controls
- Max supply pressure: 250psi
- Constructed of aluminum
- Four output pressure ranges: 0-25, 0-35, 0-60 & 0-125psi
- Flow capability is 20 scfm with excellent droop characteristics



### HP500 Series Pressure Regulators

- Available max supply pressure: 6,000psi
- Available outlet pressures: 500psi
- Brass, 316SS, 316L SS, NACE, Monel & Hastelloy constructions available
- Line & rear mounting standard
- Panel mounting is optional
- Metal-to-metal diaphragm to body seal



### GVB11 / 12 Snap Acting Relays

- Switch from main to auxiliary supply pressure
- Aluminum & stainless steel construction
- Lock actuator in last position
- Extend or retract an actuator stem
- Divert flow or pressure from one device to another
- Multiple elastomer selections offered
- Model GVB12 Relay has two spool sections mounted in tandem with the lower ports



### 100P Pressure Switch

- Versatile Nega-Rate® Belleville disc spring pressure switch for a wide range of applications
- For pneumatic & low impulse hydraulics up to 3,000psig system pressure
- Weather proof Nema 4 & 13
- Available with a variety of wetted material options



### 122P Pressure Switch

- Compact adjustable pressure switch for low to mid-range process applications
- Efficient Nega-Rate® Belleville disc spring for set point stability & vibration resistance
- Wide selection of wetted materials
- 316 SS body & interior
- Hermetically sealed explosion proof electrical



### 232P Explosion Proof Pressure Switch

- NEMA 4X, 7, 9 & 13 enclosure rating
- Internal, slotted adjustment nut with range scale
- Stainless steel wetted materials
- Hermetically sealed
- Ideally suited for hazardous environments & corrosive media
- Nega-Rate® Belleville disc spring for set point stability and vibration resistance



### Model 046 Field Regulators

- Comparable to Fisher 627
- Available with an internal relief valve (IRV), blocked throat, & control line tap for remote or monitor applications
- Can be pressure loaded by means of an instrument regulator for more accurate pressure control



### Model 143-80 Service Regulators

- For residential, small commercial & industrial applications
- Many body sizes, loading springs, & orifices sizes available
- Outlet pressure ranges & capacities to fit most applications
- Simple, rugged & reliable



### Temperature Regulators

- Regulate system temperature by modulating the flow of gas to the burner in response to temperature changes
- Mechanically operated
- Require no external power source



### 910 Series Compact Pneumatic Control Valves

- Diaphragm actuated
- Bronze, cast iron or SS body materials
- Heavy duty die cast housing
- 1/2" - 6" valve sizes
- 7", 9" & 12" actuator sizes



### Opto-Matic Oilers

- Ensures constant level of oil in a pump bearing housing, gear box, or other oil sump applications
- SS models offer long life in corrosive environments
- One-piece glass reservoir
- Adjustable level setting
- Side & bottom connections



### Streamliner™ Grease Lubricators

- Can be mounted in any position
- Spring type lubricator
- Sturdy, anodized aluminum base
- Blow-out proof stem
- Light, medium & heavy spring types included
- For demanding, high vibration applications



### Watchdog® Desiccant Breathers

- 96% greater filtration competitors
- For gear boxes, transformers, storage tanks, fluid reservoirs, or oil drums
- Improve lubricant performance
- Reduce abrasive wear, downtime, & repair costs
- Increase oil & filter life







### Models 1017 & 1071 Solid State Timers

- Eliminates the need for a separate control circuit
- Small, plug-in unit saves space & installation time
- Removing power resets the control circuit
- Input power actuates timing sequence



### Model 1310 Din Rail Mount Solid State Industrial On Delay Timer

- Control-On Delay, Continuous Duty
- Remote Reset with built in LED Indicator
- Housing with finger-safe electrical connectors – IP20 Rating
- Reinforced Isolation for Relays (Sealed Relays)
- Timed and Instantaneous contacts



### Motion Sensor

- Speeds: 1,080 to 108,000 ppm
- Adjustment: 0.02 to 1000 secs
- Zero, under-/overspeed detection
- User-selectable speed
- Ranges compatible with competitor
- OEM motion detectors & PLC applications



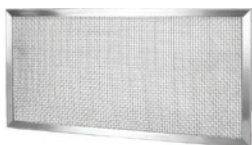
### Heater Enclosure Packages

- The radiant energy is directed onto a target, not wasted on heating the surrounding air
- Fueled with natural gas or propane
- Provide freeze protection for valves & regulators
- Suited for areas where a flame or conventional electric heater is not safe



### Model 1224 Catalytic Heaters & Parts

- For industrial applications using gas or propane to produce flameless heat with most of the heat generated as radiant, infrared energy
- Catalytic heaters have no moving parts to wear out & catalyst is not consumed during the heating process
- Max operating temp is relatively low (always below 900°F)
- Heaters will continue to operate indefinitely, with no maintenance as long as clean fuel is supplied



### Quick Response Heaters

- For industrial applications using gas or propane to produce flameless heat with most of the heat generated as radiant, infrared energy
- Max operating temp is always below 900°F
- Heaters will continue to operate indefinitely, with no maintenance as long as clean fuel is supplied



### SS-2 Pneumatic Pressure Switch

- 316SS construction, NACE MR0175 models available
- Operating pressure from .5 to 20,000psi
- Block-&-bleed 3-way valve
- ±1% repeatability on set points
- Minimum deadband between trip & reset pressure
- Tamper proof lock-out device available



### 1503 Sand Probe Relay

- 316 SS construction, NACE MR0175 models available
- Operates with flowline pressures as low as 100psi
- "Red band" on shaft indicates that sand probe relay has operated
- SIL 3 Certified models available



### HLR 7970 Hi/Low Pressure Sensor Set

- Self-contained, field mount assembly
- When a loss of instrument supply is required upon detection of monitored pressure decreasing below the PSL setting or increasing above the PSH
- 2 position, 3-way, automatic reset (spring return) with pressure balance spool & flow control valve
- Set pressures: 10 to 10,000psi



### HLR 350-10 Electric Sand Probe Switch

- Single pole double throw (SPDT) electric switch assembly that operates in conjunction with shutdown controls & alarm circuits
- Wired for either gain or loss of electrical output upon actuation
- Removal of applied pressure at probe base allows contacts to automatically reset



### DigiStem® DST400 Digital Thermometers

- Large 1" LCD display, readable from 30 feet
- Direct replacement for bimetal, mercury-in-glass, bulb & capillary thermometers
- NEMA-4X Stainless Housing withstands use in industrial process monitoring applications, indoors or out, including food, beverage, pharmaceutical, petrochemical and tire & rubber.
- Hose-down proof, vibration tolerant
- Long-Life, Lithium Battery with 4 years life at 2 second sample rate, up to 10 years at 10 second rate
- Rigid, Remote, or Adjustable Angle Probe connections to allow mounting choices for easy reading
- 5 thermocouple input choices
- Temperature ranges 0° to 800°F



### W1174V Ultra Pure Stainless Steel Vacuum Switch

- All welded stainless steel interior which are Helium leak checked to pass 4 x 10<sup>-9</sup> Std CC/Sec
- Used in silicon wafer ovens, numerous medical devices, & other applications where even the slightest impurities are not tolerated
- Set Point Range: 1.6 to 28.2 InHg
- Max System Pressure: Opsig
- Temperature range: -65°F to +225°F (-54°C to +107°C)



### J705 High Pressure High Set Point Switch

- Designed for use with various oils, waters, assorted gases, & are resilient against impeller spikes from pumps
- Allows higher set points to complement more severe environments without sacrificing set point repeatability
- Set Point Range: 500 to 6,000psig
- Max System Pressure: 9,000psig
- Temperature range: -65°F to +225°F (-54°C to +107°C)



### Miniature Pressure & Vacuum Switches

- Highly versatile devices that can be used in hundreds of OEM & routine mechanical applications including process, nuclear, military & aerospace applications
- Varying features & materials of construction are available to suit your application
- Numerous fitting & electrical connectors available including TB, TS, Military & DIN



### Miniature Temperature Switches

- Withstands over temperatures & pressure spikes without affecting set point or life of switch
- 9 ranges of adjustability from -45°F to +510°F
- Direct mount offers thermal isolation between electrical switch & sensor
- Numerous electrical interface options & fitting/adaptor options available
- Stainless Steel



### Liquid Level Switches

- Factory sealed to meet NEMA VI specification
- The L60 (vertical mount) & L20 (side mount) models have stainless steel wetted parts
- Feature 24" long, 20 AWG wires
- Models available in brass, PVC, Kynar & polypropylene



### L95 Series Hydrostatic Level Transmitter

- Fully integrated structure with sensing element & signal conditioning circuit located & sealed in the probe housing
- Accurate readings in pressure ranges from 0-200m H2O
- High performance silicon piezo-resistive sensor
- Durable 304 stainless steel construction
- IP68 Rated



### Detent-Action Switches

- The contacts operate on the original, reliable principle of knife switches
- The design is shockproof & virtually bounce-proof
- Positive maintenance-free operation
- Double-sided, double-wiping, self-cleaning knife blade moveable contacts.



### Series 21 Rotary Switch

- Used for industrial applications
- Options include a max of 30 sections, up to 60 poles
- Adjustable stops for 2 - 8 position limited rotation



### Series 24 Switch

- Provides a max of 80 contacts, 10 decks, & 8 positions
- Rated to 600 volts
- UL listed
- CSA certified
- Designed for rugged reliability



### Series 25 Switch

- Offer a 10A continuous rating
- 2 - 12 positions
- Available with up to 25 decks & 75 poles



### Series 28 Switch

- For multi-position applications
- Offer a 5A continuous rating
- Max of 2-16 positions, 1-30 poles & up to 15 decks.



### Series 31 Switch

- Used by the car wash industry
- Durable, compact & economical
- Single or 4 hole mount
- Max of 10 decks, 10 positions & 20 poles



### Snag Switches

- Max 200A continuous rating
- Heavy duty
- Perfect for AC or DC switching
- 12 contacts, 12 decks, & 4 positions max



### Cam Switches

- Offer excellent horsepower ratings for motor load
- Provide a max of 24 poles, 12 decks, 12 positions & 800A continuous rating



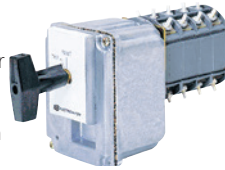
### W & W-2 Cam Style Switches

- Formerly manufactured by Westinghouse
- For instrument, control or general purposes
- For all classes of relays, meters & other electrically controlled devices
- Used where momentary, maintained or combined contact is required
- 12 rotary positions & 12 roller-wipe spring actuated contacts max



### Type WL & WL-2 Switches

- Used in applications requiring the simultaneous operation of a large number of contacts
- Designed for a Max of 46 contacts which are closed in the trip position



### Electric Reset Relay

- Retrofit to your existing substation panels
- Have remote electric or local manual reset
- High speed, rugged units
- Offer a Max of 40 contacts & 10 decks with heavy duty, 30 amp contacts



### Latching Switch Relay

- This auxiliary, rotary-action latching switch relay enables control of up to 20 NO & 20 NC contacts in a single device
- Flexible design provides a compact solution to a variety of applications including latching, programming, reclosing & seal-in relays



### Tagging Relay

- Designed for distribution automation
- SCADA, electric or manual bidirectional operation
- Available in 2 & 3 position versions,
- For both low-level & direct control applications
- Can expand SCADA beyond substation to distribution feeders



### Series 24 CSR Control Switch Relay

- For both manual & remote supervisory control of power circuit breakers
- Eliminates the need for substation redesign with redundant, separate relays when manual substations convert to supervisory control



### Series 24 LOR Lock-Out Relay with up to 15 Decks

- Used primarily as auxiliary relays in applications requiring many contacts
- High speed control relays
- Features include manual reset, 8 millisecond response & 60 contacts



### Series 24 LOR with Lighted Nameplate with up to 15 Decks

- Used primarily as auxiliary relays in applications requiring many contacts
- High speed control relays
- Features include integral coil monitoring with LED display & SCADA feedback



### Series 24 - Lighted Breaker Control Switch

- Can be ordered with built-in, cost-effective, long-life LED indicators
- Manually operated switches
- Integral design saves panel space
- Easy to use with no special operator training



### SLOR - Serial Lock-Out Relay

- Provides remote trip capability, trip coil monitoring, sequence of events reporting, system battery monitoring, & self-diagnostic reporting
- Expands the functionality of the Series 24 Electric Reset & Self Reset Lock-Out Relay in a single unit
- Modbus Communications Protocol DNP3 Certified
- An addressable network device
- Serial Communications



### Series 24 with Bump-Proof Handle

- Handle must be aligned & pushed in to engage before turning
- Prevents unintentional operation
- Fast & easy field upgrade to existing switches
- Less than 50% of the cost of adding external enclosures or covers



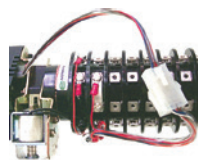
### Series 24 LOR with Push-to-Trip

- Allows the LOR to be tripped from the front of the panel
- Prevents tripping the wrong switch during testing
- Requires a hole on the panel below the nameplate to trip with a screwdriver



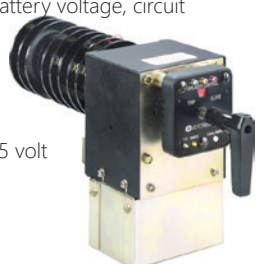
### Molex Connector

- Optional feature for lighted nameplates
- LEDs on the switch are pre-connected to the terminal deck
- Drastically speeds installation time



### SCSR - Serial Control Switch Relay

- Combines breaker control switch functions with supervisory control over a RS485 serial SCADA link using the DNP 3.00 protocol
- Switch position, system battery voltage, circuit breaker position & circuit breaker trip coil integrity can be read serially
- A mechanical flag shows last switch operation
- Available for 48 volt & 125 volt DC systems
- Lighted nameplate



### Series 24 CSR/SD

- Allows both SCADA & manual operation
- Pull handle out to allow local/manual as well as remote operation of the CSR from SCADA
- Push handle in to disable remote operation allowing only local/manual operation





## TD-CSR - Time Delay

- Provides an Arc Flash Safe method of Local Breaker Control that doesn't require SCADA
- Two front panel mounted push buttons provide the ability to manually initiate a time delayed breaker trip or close operation
- Flashing LEDs alert of pending trip or close operations
- Allows adequate time to evacuate the "Arc Flash" area



## Series 31 TR - Control Indicator Module

- A universal substation automation solution for the electric power industry
- An Intelligent Electronic Device (IED)
- Integrates multiple substation control & monitoring functions into a single unit



## ATR - Annunciator Target Relay

- Replacement/alternative for electromechanical devices used in utility applications
- LED trip indicator
- Can be used as a timing relay
- Fast response time
- Solid state
- Compact & reliable



## TCM - Trip Coil Monitor

- Panel mount relay with LEDs for visual & SCADA alarm indication on loss of voltage
- Provide continuous monitoring of the Breaker Trip Coil as well as the breaker's 52b auxiliary contacts
- Eliminate nuisance alarms with built in time delay circuit
- SCADA alarm & local indication when either the trip coil opens or the breaker doesn't complete its trip operation



## ARGA Battery Monitors

- Full battery voltage, ground meter, alarm relay
- Automatically indicates the instant a ground occurs
- 19" rack version available
- Optional hand-held ground fault locator finds the exact location of the ground, no matter where it is in the line



## Portable Battery Monitor

- Detect ground faults automatically
- Optional: DNP3.0/MODBUS protocol
- Optional: SCADA, PC, PLC digital/analog output
- Under/over voltage, + & - ground fault relays
- Front panel set/adjust with power on
- High accuracy  $\pm 0.2$  VDC
- Hand-held fault locator
- Sonic alarm



## Digital Switchboard Meter

- Specifically for utility, switchgear & power related industries
- 4 1/2" analog meter replacement
- Many options for auxiliary power, input & output currents, & color of display readout



## 9PX Lithium-ion Single Phase / Double Conversion UPS

- Remote off / on & remote power off connectors
- 40% less weight than a comparable lead-acid UPS
- 5 year warranty is 2 1/2 times that of 9PX lead-acid UPS
- 80 to 120% more runtime at full load compared to lead-acid batteries
- 1U lithium EBM vs 2U lead-acid EBM
- Battery Management System (BMS) improves reliability & performance by monitoring temperature & charge



## 9PX 5-11kVA Three Phase Input / Single Phase Output UPS

- ABM technology increases battery life by up to 50% using a three-stage charging technique
- Serial, USB, & Relay Connectivity, plus an extra slot for an optional card
- Load segment control enables prioritized shutdowns of non-essential equipment
- Can remotely reboot network equipment, or manage scheduled shutdowns & sequential start-ups
- Up to 12 hot-swappable EBMs can be added, & are automatically recognized by the UPS
- Uses NETWORK-M2 & IPM 2 to integrate with virtualization platforms



## 9PXM 4-20kVA UPS

- N + X redundancy for power & logic eliminates system-level single point of failure
- Bypass power configured for any application
- Easily converts from tower to rackmount
- Add EBMs to any slot for longer runtime or redundancy
- Build-to-order configurations
- Hot-swappable modules
- Single frame cabinet
- Two communications ports
- High efficiency mode increases efficiency from 94-97%



## 5P Lithium-ion Rackmount, Lead-Acid Tower & Rackmount UPS

- Integrates with leading virtualization platforms
- 2-post, 4-post, tower & wall-mount options
- Full remote management with optional, cyber-secured card
- Compact 1U & 2U models
- Remote off / on & remote power off
- Optional Lithium-ion for up to 8 years battery life
- Lithium-ion management system provides up-to-date insight on battery performance, charge cycles & temperature



## 5PX G2 UPS 1-3 kVA UPS

- Latest 5 Series model, comes in 2-post or 4-post rackmount or tower options
- Mass firmware upgrades without dropping the load
- Reduce intrusion risk with NETWORK-M2 card which meets UL & IEC cyber-security standards
- Monitor & manage remotely with VPM or IPM software including graceful shutdown
- Default DHCP enabled for network-bundle models
- 25% increased runtime on 1.5 & 2 kVA models



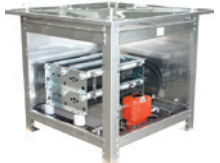
## Dynamic Braking Resistors

- Able to supply a solution tailored to your needs & your particular application
- Convection & fan-cooled dynamic braking & motor control resistors available
- Pre-engineered solutions can be quoted & shipped the same day
- Motor control solutions can be configured for form-fit replacement to legacy equipment
- Uses primarily spiralwound or grid elements depending on ratings & configuration



## Neutral Grounding Resistors

- For both low & high resistance applications
- Standardized designs allow for custom configuration of options including enclosure material/finish, relaying, brushings & seismic bracing



## Medium Voltage Switchgear CTs

- Designed specifically to mount in medium voltage Switchgears (usually 5, 15, 27 & 38kV Switchgears)
- Integrated corner mounting holes for easy installation
- As per IEEE/ANSI C57.13 or IEC 1819-1 accuracy classes for metering and/or relaying



## Medium Voltage Single Phase Transformers

- Metering panels, relay/control panels, generators, switchgears, circuit breakers, motor starters, etc.
- Single Phase - single bushing or two bushing designs
- Easy installation with various mounting options
- Wide range of Ratios with various secondary voltages 100/110/120V
- IEEE / ANSI or IEC class VTs are available



## Digital & Analog Panel Meters

- Where extended monitoring is required to indicate trends or rates of change
- Use analog panel meters where readings tend to fluctuate or oscillate
- Use digital panel meters when precise measurements & resolution are the foremost consideration



## 260-8xi Analog Industrial VOM

- Durable ABS plastic case
- Self-shielding taut-band meter movement provides added shock resistance
- Tri-colored dial with mirrored scale to prevent parallax error
- More than 20 measurement ranges for DC voltage & current, AC voltage & current, resistance



Instruments & controls for pressure, temperature, flow, level, & electrical applications

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