

Michigan Valve & Fitting, Inc.

## Line Card

### **Gauges - more information on pages 4-6**

*McDaniel*

Pressure gauges: Process & Utility, Brass & Stainless, liquid filled

*Noshok, Inc.*

Gauges & Transducers

### **Regulators-Pressure & Temperature - more information on page 7**

*Go Inc.*

Precision Regulators & Valves for specialty gases and liquids

*Cashco*

*Matheson*

### **Valves-Actuators-Positioners - more information on page 8**

*Worcester Controls Corp.*

Complete line of ball & control Valves

Electric & Pneumatic Actuators & Positioners

Programmable Timers

### **Industrial Valves**

Gate, Globe, Check, Ball, Knife, and Butterfly Valves thru 24"

### **Filters & Gas purification**

*Finite Filters*

*Headline*

Complete filter line: emissions, compressed air, gas, liquid, steam, and vacuum

*Keller/Ametek*

50, 100, 200, Micron water filters

*Parker*

Hydraulic Filters

### **Thermometers - more information on pages 9-10**

*Taylor Instruments*

Bimetal, Mercury, Dial Thermometers & Recorders

*Reotemp*

### **Low Pressure Controls**

*Dwyer Instruments*

## Flow Meters

*Matheson-Rotometers*

*Dwyer Instruments*

*Hedland*

*Fathom-Mass Flow*

## Diaphragm Seals

*Noshok, Inc.*

*Hyett Instruments*

Complete line of threaded, welded, and flanged diaphragm seals

## Teflon Products

*Furon/Saint Gobain*

Teflon valves, solenoids, fittings, pumps, tubing, diaphragm seals and accessories

*Teqcom*

## Health & Safety

*Crowcon*

Personal Gas Monitor

*Matheson*

*Testoterm*

## Instrument Fittings & Valves - more information on page 11

*SSP Fitting*

Double Ferrule Swaging Action Tube Fittings in Brass & Stainless Steel

*Flolok, Inc.*

Brass & Stainless Steel Needle, Ball & Check Instrument Valves & Filters

*Camozzi*

Quick Release Fittings

*Bilok Fittings*

Pipe Fittings

## Tubing

*Syneflex*

Nylon II, Polyethelene, Polyurethane and recoil

## Stainless Tubing

304 & 316 Stainless Steel Tubing-welded, seamless, thermocoupled and capped, electropolished

*Furon/Saint Gobain*

Teflon Tubing

Stainless Steel Braided Hoses

*Dekoron*

Bundled and Jacketed Tubing

## **Stainless Tubing (continued)**

### *Unitherm*

Trace Tubing  
Heated Lines

## **Quick Connects & Couplers**

### *Tomco*

Pneumatic and Hydraulic

## **Marman**

Flanges and Clamps

## **Analyzers & Calibration**

### *Testoterm*

Precision Instruments for Temperature, Humidity, pH, Air Velocity and Combustion

### *Ametek/Jofra*

Dry Block Temperature Calibrators

### *Druck*

Hand-Held & Portable Pressure Calibrators, Deadweight testers Transducers & Transmitters

## **Solenoid Valves**

### *Spartan-Canfield*

Solenoid Valves: 2 & 3 way valves for water, steam and general service  
Custom built Valves for special applications

### *ASCO*

### *Skinner*

### *Atkomatic Valve Co.*

## **Pumps**

### *ADI Vacuum*

### *Thomas Vacuum*

## **Emissions Test Equipment**

Conrad Heated Products

Conrad Heated Filters

Custom Stainless Hose Assembly 1/8"-36"

Marmon Flanges and Clamps

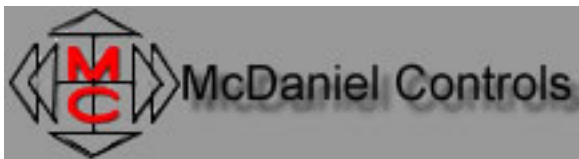
Hi-Temp Back Pressure Valves

Transducers

Thermocouples

Silicone Hose

## Gauges



Safe and Reliable, McDaniel designs and manufactures its gauges to minimize failure and to protect personnel and property. The use of laminated safety glass, rather than plexiglas or single strength glass, prevents dangerous pressure build-up in the case; the 2" glass breaks at 60 psi, the 2 1/2" at 40 psi, the 4" at 15 psi and the 6" at 8 psi. The brittle glass cracks uniformly and the laminate remains intact. Additionally, the laminated safety glass won't craze or discolor. Every 4" or 6" McDaniel gauge is designed to withstand: 300% full scale pressure without rupture of the bourdon tube. 130% full scale pressure without loss of accuracy. 15,000 cycles of pressure pulsation from 10% to 90% full scale at a rate of 60 times a minute. The gauge is allowed to rest for 5 minutes and then can have no greater error than 1% at any place on the dial.



Pulse/Vibration Protection, McDaniel offers liquid-filled gauges for applications involving vibration or pulsation. Glycerin is an excellent damper of bourdon tube movement. Emersion of the entire measuring assembly in a protective liquid envelope provides lubrication and shuts out corrosive or dirty atmospheres — thereby minimizing wear of moving parts and prolonging gauge life significantly.

## McDaniel All-Stainless Steel Gauges 1 1/2", 2", 2 1/2", 4" and 6"

### Case Styles

1 1/2" (40MM) Filled or Fillable **Model S** - 1/8" NPT\*

\*STANDARD — Also available in  
1/4" NPT on Request. (Center Back Conn. Only)

2" (50MM) Filled or Fillable **Model Q** - 1/4" NPT\*

\*STANDARD — Also available in  
1/8" NPT on Request. 2 1/2" (63MM) Filled or Fillable

**Model K** - 1/4" NPT\*

\*STANDARD — Also available in 1/8" NPT on Request.

4" (100MM) Non-Fillable

**Model A** - 1/4" NPT

**Model C** - 1/2" NPT

4" (100MM) Filled or Fillable

**Model E** - 1/4" NPT

**Model G** - 1/2" NPT

6" (160MM) Non-Fillable

**Model B** - 1/4" NPT

**Model D** - 1/2" NPT

6" (160MM) Filled or Fillable

**Model F** - 1/4" NPT

**Model H** - 1/2" NPT

## **McDaniel General Service Gauges 1/2", 2", 2 1/2", 4" and 6"**

Case Styles

Stainless Steel Case, Brass Internals Gauges

1 1/2" (40 mm) Non-Fillable, **Model R7** - 1/8" NPT

(1/4" NPT available on request)

2 1/2" (63 mm) Fillable, **Model J** - 1/4" NPT

All Brass Gauges

2 1/2" (63 mm) Fillable, **Model U** - 1/4" NPT

(1/8" NPT available on request)

2" (50 mm) Fillable, **Model T** - 1/4" NPT

(1/8" NPT available on request)

4" (100 mm) Non-Fillable

**Model L** - 1/4" NPT

**Model M** - 1/2" NPT

4" (100 mm) Filled or Fillable

**Model N** - 1/4" NPT

**Model P** - 1/2" NPT

6" (160 mm) Non-Fillable

**Model Y** - 1/4" NPT

**Model Z** - 1/2" NPT

For more information about McDaniel Gauges and how to build a part number please follow McDaniel Information. McDaniel offers more gauges than we can show here so please call or email us and we'd be more than happy to help you.



NOSHOK 100 Series Standard Gauges are a high quality dry gauge designed to provide reliable service on applications not corrosive to brass.



NOSHOK diaphragm gauges (200 Series) are designed for extremely low pressure or vacuum measurement.



NOSHOK 300 Series liquid filled gauges are used on demanding applications throughout the world that are not corrosive to brass.



NOSHOK 400 Series gauges are dry with all stainless steel construction and are the ultimate in corrosion resistant heavy duty vacuum and pressure gauges.



NOSHOK 500 Series gauges are liquid filled with all stainless steel construction and are the ultimate in corrosion resistant heavy duty vacuum and pressure gauges.



NOSHOK 600 Series (Brass) Series Process Gauges are specifically designed for demanding application in the chemical and petroleum processing industries, as well as many industrial applications.



NOSHOK 700 Series (304SS) Series Process Gauges are specifically designed for demanding application in the chemical and petroleum processing industries, as well as many industrial applications.



NOSHOK 900 Series Liquid Gauges are used on industrial applications throughout the world where pulsation, vibration and shock is present and the pressure media is not corrosive to brass.

## Regulators



GO Regulator, Inc. was established in 1962 and has grown to become a leading supplier of standardized and specialty fluid control components to the instrumentation, petrochemical and semiconductor industries.



The PR-1 series stainless steel pressure reducing regulator, introduced in 1969, was the beginning of this complete line of components. It is still recognized throughout the industry as a benchmark of quality and performance. GO Regulator, Inc. is now a member of the CIRCOR family. This family consists of seven different companies, all of whom are recognized leaders in their field. The companies within this group provide custom designed solutions for customers in the aerospace, military, industrial, power, marine, medical, chemical, petrochemical, and oil and gas processing markets. CIRCOR combines the product lines of complimentary companies to meet the instrumentation needs of customers worldwide.

Virtually all application requirements can be satisfied with over fifty different fluid control products and numerous optional features. See for yourself how GO Regulator, Inc. can be the answer to your most demanding needs!

For more information regarding pricing, delivery and specs please call (586.598.9000) or e-mail us ([mvfisales@mvfi.com](mailto:mvfisales@mvfi.com)).

For online documentation can be downloaded here: [mvfi.com/pdfs/reggoreg.pdf](http://mvfi.com/pdfs/reggoreg.pdf)



Cashco, a company committed to the design and manufacture of quality valves and regulators began in 1920 by A.W. Cash. The company originated in Decatur, Illinois and remained in production under this identity until 1934. At this time, Riley Stoker Corporation of Worcester, Massachusetts acquired the stock of A.W. Cash Company. This transition created many positive changes for the Corporation. A.W. Cash company became what we know as Cashco. In 1976, Cashco's headquarters and plant were moved to Ellsworth, Kansas to continue serving the needs of the process industry.



Cashco's corporate ownership has changed several times throughout its history however, its original goals and company mission continue to structure the path for success. President, Phillip G. Rogers, has provided Cashco with leadership and quality management since 1985. During this time, Cashco has continually expanded its product line of control valves and regulators through acquisitions and product development.

Cashco stands behind its motto "We Simply Make It Right" by providing excellence in products made and customer service provided. Cashco maintains this commitment by delivering quality products and meeting the customer's requirements in a desired time frame. Cashco, an innovative leader in the process industry, utilizes state-of-the-art machine tools and business systems to support market and industry demands. This allows for effective cost management, benefiting the end user.

For more information regarding pricing, delivery and specs please call (586.598.9000) or e-mail us ([mvfisales@mvfi.com](mailto:mvfisales@mvfi.com)).

## Valves-Actuators-Positioners

### Worcester Controls

**Innovative Technology from an Industry Leader.** Worcester Controls has the quality solution to your flow control needs. Our valves, actuators and controls serve a wide range of industries where performance, cost reduction and operation safety are primary concerns. As industries look for more user-friendly control products, Worcester Controls continues to deliver a higher level of technology for its customers.



Worcester Controls has developed seal technology for its ball valves for use in extreme pressure and temperature situations in both on/off as well as modulating control applications. We created the Polyfill® resilient seat for high temperature applications; sintered metal seats for high temperature/high pressure applications; and, we invented the characterized seat control valve -- an advanced throttling control valve that exceeds the best performance features of globe and traditional segmented valves.

Additionally, Worcester Controls has developed a complete line of electric and pneumatic actuators as well as related computer interface components for analog or digital control and communication. Our new DataFlo™ Smart Products are state-of-the-art, microprocessor-based positioners and controllers for increased process efficiency and faster valve response. Worcester valves, actuators and controls conform to evolving international, industry and customer standards including ASME, ANSI, API, FM, UL and CSA.

For online documentation can be downloaded here: [mvfi.com/pdfs/valwor.pdf](http://mvfi.com/pdfs/valwor.pdf)

### FloLok® Valves

Ball, check and a variety of flow control valves for reliable leak tight performance in instrumentation and process systems. FloLok® valves are 100% factory tested, readily available from factory authorized distributors and available in a variety of sizes and end connections.



Integral Bonnet Needle,  
Metering & Lower Packing  
Valves  
Pressures to 6000 psig,  
Temperatures to 450°F  
Metal-to-Metal & Soft Seat  
Stems, 316 Stainless Steel, Brass  
Straight & Angle Pattern  
Duolok®, Unilok®, Griplok®,  
Tube Fitting, End Connections  
Trufit® NPT End Connections



Ball Valves  
Pressures to 5000 psig, Temperatures to 350°F  
Teflon & Kel-F Seats, 316 Stainless Steel, Brass,  
Two & Three Way  
Duolok®, Unilok®, Griplok®, Tube Fitting End  
Connections  
Trufit® NPT End Connections



Check Valves  
Pressures to 6000 psig, Temperatures to 350°F  
O-ring Seat, 316 Stainless Steel, Cracking  
Pressures : 1,5,10,15,25 psig  
Duolok®, Unilok®, Griplok®, Tube Fitting, End  
Connections  
Trufit® NPT End Connections



Toggle Valves  
Pressure to 200 psig,  
Temperatures to 450°F  
Teflon Seats, 316 Stainless Steel,  
Brass, Straight & Angle Pattern  
Duolok®, Unilok®, Griplok®,  
Tube Fitting End Connections  
Trufit® NPT End Connections



Tee Filters  
Pressures to 5000 psig, Temperatures to 450°F  
Teflon Gaskets, 316 Stainless Steel, Brass,  
Elements (Micron) 1,2,5,10,20,40,60,100  
Duolok®, Unilok®, Griplok®, Tube Fitting, End  
Connections  
Trufit® NPT End Connections

## Thermometers



Taylor offers a wide variety of quality measurement instruments for the most demanding applications. From reference thermometers used in food processing to scientific lab thermometers, Taylor continues to be the most trusted brand by industry professionals. Below is a brief list of what Taylor has to offer. If you don't see anything there that fits your needs please call us and we will be more than happy to help.

### Industrial Products



**3" Bi-Therm Thermometers**  
Long-lasting welded construction. Wide selection of mountings, stem lengths and temperature ranges. Accuracy  $\pm 1\%$  Full Scale NIST traceable. 3 point factory calibration. Shatter-resistant lens. Shock proof construction. Silicone vibration dampening.



**5" Bi-Therm Thermometers**  
Wide selection of mountings, stem lengths and temperature ranges. Accuracy  $\pm 1\%$  Full Scale NIST traceable. 3 point factory calibration. Hermetically sealed dial mechanism. Crisp, legible dials. Shatter-resistant lens. Flexible, external adjustment.



**#8200, 6200 Bi-Therm Thermometers**  
Wide selection of mountings, stem lengths and temperature ranges. Accuracy  $\pm 1\%$  Full Scale NIST traceable. 3 point factory calibration. Hermetically sealed dial mechanism. Crisp, legible dials. Shatter-resistant lens. Flexible, external adjustment.



**#1328 Sling Psychrometer**  
9" tubes recessed in gray metal back. Folding swivel handle. 20° to 120°F range in 1° divisions. Boxed with spare wicks and instructions. °C and Permacolor™ (non-mercury) fill models available.



**#1330 Pocket Sling Psychrometer**  
Pocket Sling Psychrometer - Self-contained sling pocket case and slide rule sling psychrometer. Range 20° to 120°F. High-impact plastic. White on black scale markings. 5/8" and 6 7/8" for easy pocket carry. Mercury filled. °C and Permacolor™ red liquid fill available.

### Consumer Products



**#5989 Instant Read Pocket Thermometer**  
Instant read 1" dial. Temperature range 0° to 220° F. Shatterproof plastic lens. Convenient pocket case. Durable stainless steel 5" stem. Exclusive Safe-T-Set™ recalibration feature.



**#9840 Instant Read Pocket Thermometer**  
Easy-to-read digital display, 3/10" LCD Readout. Range -58° F to 302° F. ON/OFF switch for long battery life. Durable stainless steel stem. Pocket case and extra battery included.



**#1470 Digital Oven Thermometer**  
Combination thermometer/timer with stainless steel meat probe and on/off switch. 32°F to 392°F range. Probe has 4 foot cord. Temp alarm to signal when food is done cooking. Folds down for compact storage. Magnet for mounting unit to stove.



**#5921 Oven Guide Thermometer**  
Large, easy-to-read face. Temperature range 100°F to 600°F. Hangs or stands. Dishwasher safe. Durable stainless steel. 4 7/8" x 2 3/8".



**#5978 Candy-Jelly-Deep Fry Thermometer**  
Easy-to-read temperature zones. Temperature range 100°F to 400°F. Glass tube with adjustable pan clip. 8" long.



**Rugged and Reliable,** Reotemp thermometers are made of stainless steel and other corrosion-resistant material, so they withstand rust, chemical attack, and tough industrial use. Stem, plug and mounting nut are fused together and sealed to head and bezel, so crystal wont fog up.

**Accurately Calibrated.** Each bimetal coil is wound to pre-determined standards and individually tested to provide the correct amount of rotation required for an accurate full-scale reading before it goes into a Reotemp thermometer. Each thermometer is then calibrated for maximum accuracy using instrumentation calibrated to standards traceable to the National Institute of Science and Technology.

Below is brief listing of what Reotemp has to offer. If you don't see anything that fits your needs please call (586.598.9000) or e-mail us (mvfisales@mvfi.com).



3 - 5 Day Delivery  
1.5" to 5" Dials  
Standard & Custom Stem Lengths  
OEM Logo Dials  
ISO 9002 Certified



All Styles & Materials  
Complete Assemblies  
Adjustable Cut to Length



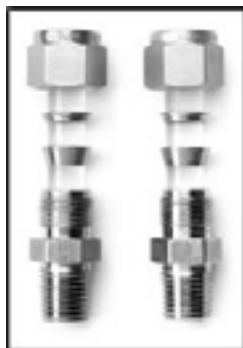
Bimetal & RTD / Thermocouple Sensor  
Local & Remote Temperature  
Readings  
NIST Traceable



Thermowells  
Digital Thermometers  
Industrial Mercury Therms  
Surface Thermometers

## Instrument Fittings & Valves

We offer a wide variety of fittings. From stainless steel to teflon. From instrumentation to industrial fittings. We offer a fitting for just about any application that you may have.



SSP Fittings Corp designs & produces hydraulic & instrumentation tube fittings & valves made from stainless steel, Monel®, brass and other exotic alloys. For over seventy-five years, SSP has been constructing a vertically-integrated operation outside of Cleveland, Ohio USA.

Today, all aspects of tooling design & production, forging, machining, assembly and testing are carefully controlled under one roof. This level of integration also provides unique opportunities for customers with non-standard requirements to work closely with SSP on applications not adequately addressed with industry-standard solutions.

Covering a broad range of industries and needs quickly and with control & confidence, SSP is Driven to Exceed.

**Duolok** tube fittings, directly interchangeable with Swagelok tube fittings

**Unilok** tube fittings, directly interchangeable with Parker CPI tube fittings.

**Griplok** tube fittings, directly interchangeable with Hoke Gyrolok tube fittings.

**Trufit** pipe, weld, hose and adapter fittings, directly interchangeable with fittings provided by Cajon, Parker and Hoke.

SSP also manufactures Tube fittings, Adapter fittings, Female pipe swivel adapters, Hose fittings, Koncentrik® pipe unions, Metric, British and Japanese sizes. Special sizes are available upon request, please call (586.598.9000) or e-mail us (mvfisales@mvfi.com). View our SSP catalog online at: [mvfi.com/ssp\\_fittings/ssp\\_home.html](http://mvfi.com/ssp_fittings/ssp_home.html)



Saint Gobain Flare Grip® PFA fittings (FMP), and Grab Seal™, Compression Fittings (IMP) are specially designed to handle aggressive chemicals or the transfer of inert and ultrapure fluids. Featuring a simple two-piece design, bodies are made from high purity fully fluorinated fluoropolymer materials. Retaining nuts are made of an inert fluoropolymer that has superior structural strength.

Designed for reliability in critical applications, Flare Grip®, Tube Fittings accommodate temperatures of up to 150 degrees C, and withstand temperature cycling. Working pressure can range from vacuum to 150 psig at ambient temperature. Flare Grip® are also designed to have uninterrupted flow path, low dead volume, and strong thread design.