



“Great speakers and fantastic content.”



“Excellent! I plan on sending all customer service and engineering staff to the next seminar.”

VALVE BASICS

Seminar & Exhibits 2016



“The petting zoo was amazing!! Hands-on is the best way to learn.”

EARN UP TO
18
PROFESSIONAL
DEVELOPMENT
HOURS

Oct. 18-20, 2016

Sheraton Houston Brookhollow Hotel
Houston

Includes two days of 101 lessons along with an optional third day of 201 lessons!

The Valve Manufacturers Association of America presents three full days of education to jump-start your career or expand your knowledge of industrial valves, actuators, controls and accessories.



REGISTER ONLINE AT VMA.ORG/VALVEVBASICS

Valves, Actuators & Controls 101

Tuesday, Oct. 18

7:30 – 8:30 am **Registration/Continental Breakfast**

8:30 – 10:00 am **Welcome to VMA's Valve Basics Seminar**

LESSON 101-1: Introduction to the Industry

Speaker: *Greg Johnson, President, United Valve, Houston*

LESSON 101-2: Linear (Multi-turn) Valves

Speaker: *Matt Lovell, Production Manager, United Valve, Houston*

We begin with a broad overview of the valve industry, the major valve and actuator types, and various end-user applications. Lesson 1 includes valve standards, basic piping information, pressure ratings and classes, as well as application issues that are critical to effective valve specification and usage. The stage is set for more detailed discussions on all the major valve types to give attendees valuable knowledge that can be applied in their daily PVF work. In Lesson 2, multi-turn valve types—gate and globe valves—are explained along with stems and bonnets. In addition, there will be an in-depth look at multi-turn applications.

9:00 – 11:00 am **Exhibitor Set-up**

10:00 – 10:15 am **Morning Beverage Break**

10:15 – 11:00 am

LESSON 101-3: Check Valves

Speaker: *Carlos Davila, Product Manager, Crane Fluid Handling, Houston*

Our check valve expert details the unique qualities of check valves, explains how they work and why correct sizing is so essential for this valve type. Also included is a discussion of several specific check valve applications.

11:00 am – 12:00 pm

LESSON 101-4: Quarter-turn Valves

Speaker: *Tom Waldmann, General Manager, Technical Support Dept., KITZ Corporation of America, Stafford, TX*

We continue up the valve chain to quarter-turn valves, which includes various types of plug, ball and butterfly. While operation from full open to full close is a quick 90 degree rotation, these valves can be as complex and versatile as any design and are used in a broad range of industries. In this presentation you will be exposed to the unique features of each design and some of the applications where they play a vital role.

12:00 – 1:30 pm **Exhibits Open / Lunch in the Exhibit Hall**

Valves, actuators, controls and other products used in the flow control chain are represented in our tabletop exhibition, providing attendees with the opportunity to ask exhibitors about the products and services they provide.

All attendees who get signatures indicating they have visited each exhibitor are eligible to enter a drawing for an iPad Mini! The drawing takes place at 5:50 pm in the Exhibit Hall.

1:30 – 2:15 pm

LESSON 101-5: Pressure-relief Valves

Speaker: *Kim Beise, President, Dowco Valve Company, Hastings, MN*

Pressure-relief valves (PRVs) are known as the "Last Line of Defense" in the valve industry. In this session, we learn how PRVs perform, their critical role in plant safety and important maintenance guidelines.

2:15 – 3:00 pm

LESSON 101-6: Actuators – Manual and Fluid Powered

Speaker: *Russ Robertson, Product Manager, Valves and Measurement, Cameron, a Schlumberger Company, Houston*

This lesson provides a basic understanding of the various types of manual devices and fluid powered actuators that are commonly used with quarter turn and linear operated valves. Beginning with the basic concepts for how thrust and torque are generated, the presentation moves from manually operated levers and gears to power actuators that are driven from a supply of compressed air, hydraulic fluid or natural gas. Operating principles for double acting and spring return functions are defined, along with a variety of torque generating mechanisms with their associated torque output characteristics. Attendees will see a wide range of images, animations and application photos to enhance an understanding of the lesson contents, and to provide an increased level of confidence for specifying or evaluating a variety of potential actuator solutions.

3:00 – 3:30 pm **Exhibits Open**

3:30 – 4:45 pm

LESSON 101-6: Actuators – Manual and Fluid Powered (cont.)

5:00 – 6:00 pm

Exhibits Open / Wine and Beer Reception in the Exhibit Hall

Valves, actuators, controls and other products used in the flow control chain are represented in our tabletop exhibition, providing attendees with the opportunity to ask exhibitors about the products and services they provide.

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Wednesday, Oct. 19

8:00 – 8:30 am **Registration/Continental Breakfast**

8:30 – 9:15 am

LESSON 101-7: Actuators – Electric

Speaker: *Chris Perdsock, Central Midwest Area Sales Manager, Rotork Controls Inc., Kansas City, MO*

The focus here is on multi-turn and linear electric actuators, their basic designs, common options and applications. The presenter also discusses actuator controls and their requirements, digital controls and their benefits, as well as the benefits of open digital protocols.

9:15 – 10:15 am

LESSON 101-8: Solenoid Valves

Speaker: *John Molloy, Sales Training Manager, ASCO, Florham Park, NJ*

Solenoid valves are defined and explained, along with guidelines on how to make the best selection of a solenoid valve. The presenter also discusses the functions of a solenoid coil, how 2-way, 3-way and 4-way solenoids operate, and various applications for solenoid valves.

10:15 – 10:30 am **Break**

10:30 – 12:00 pm

LESSON 101-9: Control Valves

Speaker: *To be announced*

Our presenter defines control valves, explains what they do and describes typical control valve styles, including variations, types and applications. The discussion will also include valve sizing and selection, cavitation and flashing, and a brief overview of controllers, control systems, and pertinent safety standards.

12:00 – 12:45 pm **Lunch**

12:45 – 5:00 pm (includes two 10-minute snack breaks)

Valve Petting Zoo—Hands-on Instruction

We divide attendees into nine equal groups, so each group has an opportunity to visit tables where the product types covered in each lesson—plus a bonus table with packing and sealing materials—will be displayed. Our industry experts will point out the various components of these products and demonstrate how they work. Attendees are encouraged to pick up and examine the valves, actuators and other products, and ask questions in a small group setting—all designed to help clarify what was learned during the previous lessons.

5:00 pm **Certificates Awarded**

Valves, Actuators & Controls 201

Thursday, Oct. 20

8:00 – 8:30 am **Registration/Continental Breakfast**

8:30 – 10:00 am

Lesson 201-1: Valve Packings & Fugitive Emissions

Speaker: *Rodney Roth, North America Strategic Accounts Manager - Stationary Equipment, A.W. Chesterton, Houston*

One of the most important issues facing the valve industry today is the control of fugitive emissions. Unwanted emissions are both harmful to the environment and costly to end users. This topic will focus on how the packing industry and the valve industry are working together to create solutions to this issue. Items discussed include fugitive emissions regulations, packing design, low-emissions packings, valve packing systems design and testing standards.

10:00 – 10:15 am **Morning Beverage Break**

10:15 am – 12:00 pm

Lesson 201-2: Valve Materials

Speaker: *Tom Waldmann, General Manager, Technical Support Dept., KITZ Corporation of America, Stafford, TX*

Many different materials are used in the construction of valves. Selecting the proper materials is as critical as the valve type itself. The materials chosen are vital to the durability and service life of each valve. This comprehensive program covers basic metallurgy, properties of metals as they relate to valves, material descriptions and characteristics. Typical material selection for a variety of service applications is also on the agenda.

12:00 - 12:45 pm **Lunch**

12:45 - 2:00 pm

Lesson 201-3: Critical Service Applications and Valves

Speaker: *Robert Michael, Director, Product and Quality Compliance, Sunbelt Supply, Pasadena, TX*

Valves have become more sophisticated as they are applied to many new applications and service conditions. This module includes high-performance valves such as metal-seated ball valves and triple offset butterfly valves, and the services in which they are used today. A description of some of the unique coatings and construction details of metal-seated ball valves will be discussed.

2:00 - 3:00 pm

Lesson 201-4: Controls—On/Off Panels for Fluid Powered Actuators

Speaker: *Russ Robertson, Product Manager - Valves and Measurement, Cameron, a Schlumberger Company, Houston*

This lesson provides a basic understanding of commonly used control panels for the on/off operation of power actuators that are driven from a supply of compressed air, hydraulic fluid or natural gas. Fluid powered actuators will generate a required thrust or torque to open and close a quarter turn or linear operated valve, but some type of control component or panel (assembly) is needed to command the actuator into action. Beginning with schematic symbols, attendees will learn how to identify and read the symbols individually, and when used within the context of basic schematic diagrams that identify the operation of a control panel. Hydraulic power units will also be discussed. Attendees will gain a good understanding of how to specify or evaluate local, remote or automatic control solutions.

3:00 – 3:15 pm **Afternoon Snack Break**

3:15 – 4:00 pm

Lesson 201-5: Valve Data, Feedback & Asset Monitoring

Speaker: *Paul Souza, Product Application Specialist/Training Manager, AUMA Actuators Inc., Canonsburg, PA*

This presentation focuses on some of the more advanced features of smart actuators and positioners. Included is a discussion of maintenance strategies, condition monitoring, sensors and indication that are available from the microprocessor-driven devices.

4:00 – 5:00 pm

Lesson 201-6: Valve Repair

Speaker: *Greg Johnson, President, United Valve, Houston*

Is your valve repairable? If so, what procedure should be used to repair it? These are some of the questions that are answered in this valve repair basics module. Topics include: initial tear-down and inspection, evaluation of reparability, basic repair procedures, repair specifications and data collection.

5:00 pm **Certificates Awarded**



HOTEL INFORMATION

The Valve Basics Seminar & Exhibits will be held Oct. 18-20 at the Sheraton Houston Brookhollow Hotel (3000 North Loop West Freeway, Houston, TX 77092).

Accommodations at the hotel have been arranged at the discounted conference rate of \$159 per night + taxes. [Click here](#) to make online reservations, or call the hotel's toll free reservation line at 1.888.627.8196 and mention VMA Valve Basics. **The cutoff for making hotel reservations at the special rate is Oct. 1, 2016.**

PROFESSIONAL DEVELOPMENT HOURS

Attendees completing the 2-day Valve, Actuators & Controls 101 course (Oct. 18-19) will receive 12 professional development

hours. Those completing only day 3 of the course (Oct. 20), or the 201 program, will receive 6 professional development hours. And attendees who complete all 3 days will receive a total of 18 hours. Certificates of Completion will be given out at the end of the program on Wednesday, Oct. 19 and again on Thursday, Oct. 20. Attendees leaving before the end of the course will not receive full credit and certificates will be mailed out from the VMA office reflecting the reduced credits earned.

CANCELLATION AND SUBSTITUTION POLICY

- Cancellations received up to 30 days before the event are refundable, minus a 5% registration service charge.
- Cancellations received between 15 and 29 days before the event are 75% refundable.
- Due to hotel and other event guarantees, cancellations received between 0 and 14 days prior to the event are non-refundable.
- All cancellations must be in writing to mmaloneblevins@vma.org.
- Substitutions are allowed up until Nov. 11. Please advise Malena Malone-Blevins (mmaloneblevins@vma.org) of any

substitutions so we can verify your payment and make up a badge in advance for the person attending in your place.

ONLINE REGISTRATION

Attendees are strongly encouraged to register for this event online. Just go to VMA.org > Meetings > Basics Seminar & Exhibits, or [click here](#).

FAX OR EMAIL

You may fax your completed registration form (with credit card information) to 202.296.0378, or scan in the form and send as an attachment to mmaloneblevins@vma.org. (Credit card registration payments will show up on international customer invoices in U.S. dollars.) If paying by check, mail to: Meetings Manager, Valve Manufacturers Association, 1050 17th Street, NW, Suite 280, Washington DC 20036.

QUESTIONS

Contact VMA Education Coordinator Abby Brown (abrown@vma.org) for program information, and contact VMA Meetings Manager Malena Malone-Blevins (mmaloneblevins@vma.org) or call 202.331.8105 x310 for questions about registration or hotel reservations.

Here's what past attendees have said about VMA's Basics courses:

"I really enjoyed rotating around the petting zoo and talking with presenters. It helped reinforce the materials that were presented."

"Great introduction to the valve industry! It turns out actuators are quite interesting—it's another career choice for me to consider."

"Whole event/seminar was really informative and helped me to learn more about valves and their applications."

"...provided extremely valuable, real-life applications that aren't found in school."

INTERESTED IN EXHIBITING?

Are you a U.S. or Canadian valve, actuator or controls manufacturer; a U.S. or Canadian distributor or supplier to the valve industry; or an OEM-authorized service and repair facility? If so, you may be eligible to exhibit at the Valve Basics Seminar & Exhibits.

COST: VMA/VRC members—\$625; non-members—\$725; includes 1 tabletop and 2 exhibit personnel; additional personnel above 2—\$95 each.

PLUS, exhibit personnel receive discounted fees for attending the seminar. If you are exhibiting and attending the 101 and/or 201 courses, please register using the EXHIBITOR registration form.

Find out more about our cost-effective tabletop display:

- Review the Exhibitor Prospectus by going to VMA.org > Meetings > **Basics Seminar & Exhibits**. Then, click on the link to the Exhibitor Prospectus.
- For additional information, contact Malena Malone-Blevins (mmaloneblevins@vma.org) or Abby Brown (abrown@vma.org).



Tabletop exhibits are open on Tuesday afternoon only. The hours are: 12:00-1:30 pm (lunch); 3:00-3:30 pm; and 5:00-6:00 pm (reception).

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VALVE BASICS
Seminar & Exhibits 2016

ATTENDEE REGISTRATION

Houston | Tuesday, Oct. 18 to Thursday, Oct. 20

CHOOSE ONE:

Full Registration / Oct. 18-20

First registrant from company

\$1,150

Additional registrants

\$1,095

101 Courses / Oct. 18-19

First registrant from company

\$795

Additional registrants

\$750

201 Courses / Oct. 20

First registrant from company

\$525

Additional registrants

\$490

Above registration fees include daily breakfast, lunch and breaks, plus Tuesday afternoon reception, printed seminar materials and VMA Certificate of Completion.

Exhibit hall entry only / Oct. 18 from 12:00-1:30 pm; 3:00-3:30 pm; and 5:00-6:00 pm

\$95 Includes lunch, afternoon break and reception; it does NOT include entry into educational sessions.

PLEASE FILL OUT A SEPARATE FORM FOR EACH ATTENDEE.

FIRST AND LAST NAME

NICKNAME FOR BADGE

TITLE

COMPANY

E-MAIL

ADDRESS

CITY

STATE/PROVINCE

ZIP/POSTAL CODE

PHONE

FAX

Choose check or charge:

Charge: Complete and fax to 202.296.0378, or scan and send as attachment to the VMA Meetings Manager (mmaloneblevins@vma.org).

VISA MasterCard Discover AmEx

Name (exactly as printed on card)

Billing address (if different than address on left)

Card No.

Exp. Date

3- or 4-digit code

Signature

Enclosed is a check in the amount of:

\$ _____ representing _____ registrations

Please make check payable to VMA, referencing the Valve Basics Seminar & Exhibits, and mail this form and check to: Malena Malone-Blevins, Meetings Manager, Valve Manufacturers Association, 1050 17th St., NW, Suite 280, Washington DC 20036

Do you receive VALVE Magazine? Yes No

If "no," may we provide you with a free subscription? Yes No

If "yes," choose either: Print or Digital

Sign here and provide date to activate your quarterly subscription:

Signature

Date

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