



Valves, Actuators & Controls 101

Tuesday, May 12, 2015

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

8:30 – 10:15 am

Welcome to VMA's Valve Basics Seminar

LESSON 101-1: Introduction to the Industry

Greg Johnson, President, United Valve

LESSON 101-2: Multi-turn Valves

Matt Lovell, Production Manager, United Valve

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.

10:15 – 10:30 am **Morning Beverage Break**

10:30 – 11:00 am

LESSON 101-3: Check Valves

Arie Bregman, VP and General Manager, DFT Inc.

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.

11:00 am – 12:00 pm

LESSON 101-4: Quarter-turn Valves

Bob Michael, Director Product and Quality Compliance, Sunbelt Supply

We progress up the valve chain, and move on to the more complex quarter-turn valve types, including plug, ball and butterfly, as well as the different options among these three broad product types.

12:00 – 1:15 pm **Lunch**

1:30 – 4:00 pm **Exhibitor Setup**

1:15 – 2:00 pm

LESSON 101-5: Pressure-relief Valves

Kim Beise, President & CEO, Dowco Valve Company

We learn how pressure-relief valves perform, their critical role in plant safety and important maintenance guidelines.

2:00 – 2:30 pm

LESSON 101-6: Actuators – Hydraulic and Pneumatic

Scott Richardson, National Sales Manager, Kinetrol USA

This lesson focuses on pneumatic and hydraulic actuators and includes a description of the various actions, such as linear, rotary, etc., that are used to operate the valve types discussed in earlier lessons. Our presenter then describes the various actuator types that provide these actions. The lesson provides the information attendees require to understand their options, including how each actuator type may apply to their specific needs, and what questions to ask when selecting an actuator.

2:30 – 3:00 pm **Snack Break**

3:00 – 3:45 pm

LESSON 101-6: Actuators – Hydraulic and Pneumatic (cont.)

3:45 – 4:30 pm

LESSON 101-7: Actuators – Electric

Chris Perdzock, Sales Manager and Training Representative, Rotork Controls, Inc.

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

4:30 – 6:00 pm **Reception / Exhibits Open**

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

Wednesday, May 13, 2015

7:30 – 8:00 am **Registration**

8:00 – 9:30 am **Breakfast/Exhibits Open**

9:30 – 10:15 am

LESSON 101-8: Solenoid Valves

John Molloy, Sales Training Manager, ASCO Numatics - Emerson Industrial Automation

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-, 3- and 4-way solenoids operate, and various applications for solenoid valves. In addition, this lesson will also include information about limit switches and proximity switches.

10:15 – 11:15 am

LESSON 101-9: Actuator Accessories

Greg Hadley, Regional Sales Manager, StoneL (Metso Automation USA)

This lesson features positioners, switch boxes, quick exhaust valves and volume boosters, including how these various

Tell your colleagues! The next 3-day Valve Basics Seminar & Exhibits is Oct. 21-23, 2015, at the Hyatt Regency Riverwalk in San Antonio, TX. Registration will open in July.

products work, possible variations, housing types, linear and rotary use, mounting standards and applications.

11:15 am – 12:30 pm

LESSON 101-10: Control Valves

David Scott, Central Regional Manager, Samson Controls Inc.

Our presenter defines control valves, explains what they do and describes typical control valve components, including variations and types. The discussion will briefly touch on linear valves and actuators, as well as sizing and control valve diagnostics.

12:30 – 1:30 pm **Lunch**

1:30 – 5:00 pm (includes two 15-minute 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 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 and actuators, 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, May 14, 2015

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

8:30 – 9:00 am

Lesson 201-1: Valve Standards

Carlos Davila, Product Manager-Americas, Crane ChemPharma/Energy Flow Solutions

The valve industry is directed by a myriad of standards created by several standards development organizations. This session will reveal the importance of these standards and help valve manufacturers, distributors and end users develop a working knowledge of the standards they encounter every day.

9:00 – 9:45 am

Lesson 201-2: Valve Packings—Design to Installation

Rodney Roth, Manager Strategic Accounts, Stationary Equipment, A.W. Chesterton

One of the most important issues facing the valve industry today is the control of fugitive emissions. The control of fugitive emissions begins with the packing in a valve. This topic will focus on the packing system of a valve and how all the pieces work together to create an effective seal. Items discussed include packing materials, packing design, valve design

requirements, low-emissions packings, fugitive emissions regulations and testing requirements.

9:45 – 10:00 am **Morning Beverage Break**

10:00 am – 12:00 pm

Lesson 201-3: Valve Materials

Bob Michael, Director Product and Quality Compliance, Sunbelt Supply, and Greg Johnson, President, United Valve

Valves use many different materials. Selecting the proper materials of construction is critical to the success of the valve in service. This comprehensive program will cover basic metallurgy, properties of metals as they relate to valves, material descriptions and characteristics, and typical material selections for a variety of service applications.

12:00 – 1:00 pm **Lunch**

1:00 – 3:00 pm

Lesson 201-4: Critical Service Applications and Valves

Arie Bregman, VP and General Manager, DFT Inc.

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 offered as well.

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

3:15 – 4:00 pm

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

Paul Souza, Training Manager, AUMA Actuators, Inc.

Are you wasting critical man hours on unneeded maintenance? Not sure what happened to cause an outage? This presentation will cover some of the advanced operational data information available from smart actuators and positioners. Details of available data logging, predictive maintenance requirements, and management of information for electric and pneumatic actuator will be discussed.

4:00 – 4:45 pm

Lesson 201-6: Valve Repair

Greg Johnson, President, United Valve

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

4:45 pm **Certificates Awarded**