



2KG TRAINING

2KG TRAINING

VALVE TYPES: SELECTION, INSTALLATION AND OPERATION

Presenter: John Tonkin

ABOUT THE PRESENTER: JOHN TONKIN



2018 sees John's 48th year in engineering. Initially he had exposure to plant maintenance (steam, water, pneumatics, ash handling, boilers, turbines and pumping systems) and marine steam plant. A number of years in the selling, commissioning and trouble shooting of pumping systems were followed by nine years in the designing and presenting of training courses which covered the technicalities and marketing of pump sets, pipes, valves, diesel engines and basic electrical systems for pumping plant.

An extended period followed in which John's career was focused on the marketing, selling and trouble shooting of pumping systems and submersible electric motors. Through his exposure to the international arena and the development and marketing of new products, John has gained a unique perspective of the fluid movement and control industry.

A firm believer in the benefits of high-quality training, John has been at the forefront of training initiatives throughout his career. He can now offer your company the knowledge and skills he has gained over the years, presented in an interactive and practical manner. His courses have drawn a multitude of positive comments, many of which allude to his professional presentation style and the practical examples he offers throughout the training session

Number of days: 4

Cost: R11 950 excl VAT

CPD Points: 4

The control of fluid flow in pipelines is a complex issue. In this course delegates are taken through the attributes and applications of the more popular valve patterns in a pipe work system. The hydraulic concepts associated with the operation of these valve types will be included. The complex subject of control valves is introduced, with an overview of functions such as pressure sustaining, reduction, rate of flow control etc. Valve actuating mechanisms are also covered as these are becoming increasingly important in the overall operation of the reticulation system.

KEY CONCEPTS

Valve orifice, Cv, and other hydraulic concepts. Control valves (overview only). Gate, globe, pinch, diaphragm, ball, butterfly valves. Materials of construction. Air release, vacuum breaker and non-return valves. Actuators.

WHO SHOULD ATTEND

- Piping Engineers and Designers
- Mechanical Engineers
- Process Engineers
- Plant managers and Engineers

COURSE OUTLINE

Hydraulic concepts	<ul style="list-style-type: none"> - Energy loss in control equipment - Hydraulics of the valve/pipeline system - Liquid flow characteristics Cv and Kv - Cavitation, flashing, corrosion and abrasion
Valve requirements and applications	<ul style="list-style-type: none"> - Basic requirements - Materials of construction - Applications
Valve categories: Principles of operation	<ul style="list-style-type: none"> - Gate (RSV, knife, parallel wedge) - Globe - Ball - Butterfly - Diaphragm - Pinch - Plug - Air release/vacuum breaker
Factors governing valve selection	<ul style="list-style-type: none"> - Properties of fluids - Temperature and pressure - Type of service
Valve sizing	<ul style="list-style-type: none"> - Non controlling applications - Controlling applications
Valve selection and Build Variations	<ul style="list-style-type: none"> - Important variations in designs by manufacturers of: <ul style="list-style-type: none"> • Gate valves • Globe valves • Ball valves • Butterfly valves • Diaphragm valves • Pinch valves • Plug valves • Air release/vacuum breaker valves • Comparative costs for the various valve patterns
Valve Actuators: an overview	<ul style="list-style-type: none"> - Pneumatic actuators - Electric actuators - Positioners, controllers and sensors

In addition to a workbook, the resource material for this course will include material from selected manufactures and suppliers together with links to appropriate websites. Where appropriate, case studies based on in-field experiences will be included. Delegates are encouraged to raise problems they have had in the field with our course leaders in order to gain the maximum benefit from the program. Experience has shown that high levels of delegate participation ensure a rewarding experience for all participants.



Registration Form

Number of days: 4

Cost: R11 950 excl VAT

CPD Points: 4

How to register for the course:

1. Complete this registration form and fax it to Phindi Mbedzi: Tel: 011 325 0686 Fax: 011 325 0488 Email: Phindi@2kg.co.za
2. Acknowledgement will be emailed to you.
3. Final confirmation and details will be faxed or emailed to you approximately 7 days before the commencement of the seminar.

Cancellation Policy:

By signing and returning the registration form, the authorizing signatory on behalf of the stated company is subject to the following terms and conditions.

- All cancellations must be received in writing
- Any cancellations received less than 3 working days before the date of the event, the full fee will be payable and no refunds or credit notes will be given.
- If a registered delegate does not cancel and fails to attend the Workshop, this will be treated as a cancellation and no refund or credit note will be issued.

Delegate information:

Title: _____ Surname: _____ Name: _____

Full Company name: _____ Job Title: _____

Postal Address (to which invoice must be sent): _____

Code: _____ VAT number: _____

Tel: () _____ fax: () _____

Cell: _____ Email: _____

Contact/ Accounts information:

Title: _____ Surname: _____ Name: _____

Tel: () _____ fax: () _____

Cell: _____ Email: _____

Dietary Requirements: Normal Vegetarian Halaal

Please tick the course that you would like to attend:

15-18 July 2019
Johannesburg, CedarWoods of Sandton

I have read and agreed to all the conditions of registration as stipulated in this brochure.

Signature

Date

For more info and to register contact Phindi Mbedzi on tel: 011 325 0686 or cell: 071 125 6188 and email: phindi@2kg.co.za or visit www.2kg.co.za