

Technical Visit to a Valve Stockist: *Valmatic Engineering Sdn Bhd*



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AGRICULTURAL AND FOOD ENGINEERING TECHNICAL DIVISION

THE Agricultural and Food Engineering Technical Division (AFETD) organised a technical visit to Valmatic Engineering Sdn Bhd (VESB), Shah Alam, on 20 November 2010. The visit was participated by 18 IEM members. Upon arrival, the participants were greeted by Mr. Falco Lim, the Marketing Director of VESB.

Mr. Lim started by introducing the company and its range of products. Established in 1995, VESB is the exclusive agent and stockist for several reputable brands. It has even established its own house brand known as VALMATIC®. With the variety of valves under its stable, VESB is able to serve three major commercial sectors, *i.e.* oil and gas, waterworks and industrial.

Mr. Lim also provided basic training on valves to the participants. The short course outlined the various



Figure 1: Group photo at VESB

international standards related to valve manufacturing. This includes the American standards (API, ANSI, ASME, ASTM, MSS), the European standards (DIN, BSI, EN) and the Japanese Industrial Standard (JIS).

Valves are commonly made of brass, bronze, cast iron, ductile cast iron, cast steel/forged steel and stainless steel, although there are times when a special alloy (monel, nickel, hastelloy B or C, *etc*) is used for critical applications. Valves are also designed with different end connections such as Butt Weld End, Socket Weld End, Threaded End, Union Female End, Wafer End, Lug Type Tapped End and Flanged End.

In fluid dynamic engineering, valves are always constructed and rated to cater to different engineering applications. Four parameters, *i.e.* the pressure, temperature (heat), physical (gas, liquid or fluidised

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- Thai Stainless Steel Development Association (TSSDA)



Figure 2: Training in the classroom



Figure 3: Training outside the classroom



Figure 4: Several types of valves being exhibited at the factory



Figure 5: Mr. Lim demonstrating how a valve is tested

powder) and chemistry (caustic and acidity) of the flow medium should be considered in selecting the appropriate valve. To facilitate the easy operation and maintenance of the valves, various types of handles are available, e.g. multi-turns (linear motion type) and quarter-turn (rotary motion type). The stem could also be of the rising type or fixed (non-rising) type.

The delegates were then brought to the warehouse and workshop where the valves are stored and tested prior to shipment. A demonstration on the hydraulic testing of valves was also carried out. With the visit, the participants were able to gain a better understanding on the construction and application of different types of valves. ■

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