When it comes to the fluid handling industry, there is one publication that every engineer has heard of, studied, and refers to often regarding the flow of fluid through valves, pipes and fittings, and that document is the CRANE Technical Paper 410 (TP-410). Intended for use by a wide range of plant engineers, technicians, maintenance personnel, and plant operators, the TP-410 has become the quintessential guide in selecting the correct equipment and parameters when designing and operating any piping system. This year marks its 75th anniversary, and since its inception in 1942, the TP-410 has undergone multiple revisions and updates to remain relevant to generation after generation of engineers.

By Aneta Stephens, Crane ChemPharma & Energy

Crane was founded in 1855 by one man, Richard Teller Crane, who built his company on a set of values that have guided its employees for over 160 years. Since then, Crane has been the world’s leading innovator and pioneer of practical flow control solutions, addressing and exceeding the needs of the industry, enabling customers to operate better, faster and safer. With a heritage of innovation built upon a dedication to technical design and manufacturing excellence, combined with standards and values that center on honesty and fairness, it’s no wonder the company was recognized for its leadership and was featured in the 75th anniversary edition of Valve World Americas.

Crane Co. is a diversified manufacturer of highly engineered industrial products. Founded in 1855, Crane provides products and solutions to customers in the hydronic heating, petrochemical, chemical, power generation, unattended payment, aerospace, electronics, transportation and other markets. The Company has four business segments: Fluid Handling, Payment & Merchandising Technologies, Aerospace & Electronics and Engineered Materials. Crane has approximately 11,000 employees in the Americas, Europe, the Middle East, Asia and Australia. Its common stock is traded on the New York Stock Exchange (NYSE:CR). For more information, visit www.craneco.com.
components based on the knowledge found within the pages of TP410. The two-part Piping System Principles is a self-paced learning course which provides a comprehensive understanding of the hydraulic principles between components in a fluid system. Additional courses include an Overview of Piping Systems and webinars on Centrifugal Pumps, Process Measurement and Control, and Head Transfer. In addition, registration for in person software training at ESI’s home state of Washington can be made via the site. The implementation of this website not only facilitated the work for existing users of the TP-410, it also recruited a generation of new users who were not already aware of the publication’s benefits.

But the TP-410 is just one example of Crane’s technical heritage. As an integrated fluid handling solutions provider, Crane is well equipped to deal with complex global projects and all requirements related to those projects. Our extensive product portfolio enables Crane to offer product packages and timely proposals to simplify our customers’ supply chain on a local level worldwide, at competitive market pricing. Whatever the application or project requiring valves for flow control of media that may be demanding, toxic, corrosive, liquid, gas, or slurries, Crane is there to help. From the largest to the simplest, from a single valve to a complex project requiring engineering to get it just right, Crane has the resources and dedicated staff to provide solutions to meet your daily needs and make your projects and MRO initiatives work. With its extensive network of worldwide locations the company is able to use its global project management processes to coordinate and link all activities from feasibility through design, procurement, start-up, and final documentation, essentially creating a one-stop solution for its customers.

Commitment to Innovation

For the last 160 years, Crane has prided itself on manufacturing excellence, continual customer service, and a commitment to innovation. The TP-410 and its evolution to an online platform is one example of such innovation, but another is Crane’s dedication to product advancement. Wherever the location of those activities might be, Crane’s processes link all teams throughout the world to present its customers with a single face (and interface) – that of Crane.

The development of the TP-410 as an educational resource for the industry, the consistent and meaningful product introductions such as the Crane®FKX 9000 and the strong ethical standards of excellence and service are what makeup Crane and contribute to the advancement of the industry.

The views and opinions expressed in this article are those of the profiled company and do not reflect the position of Valve World Americas.