

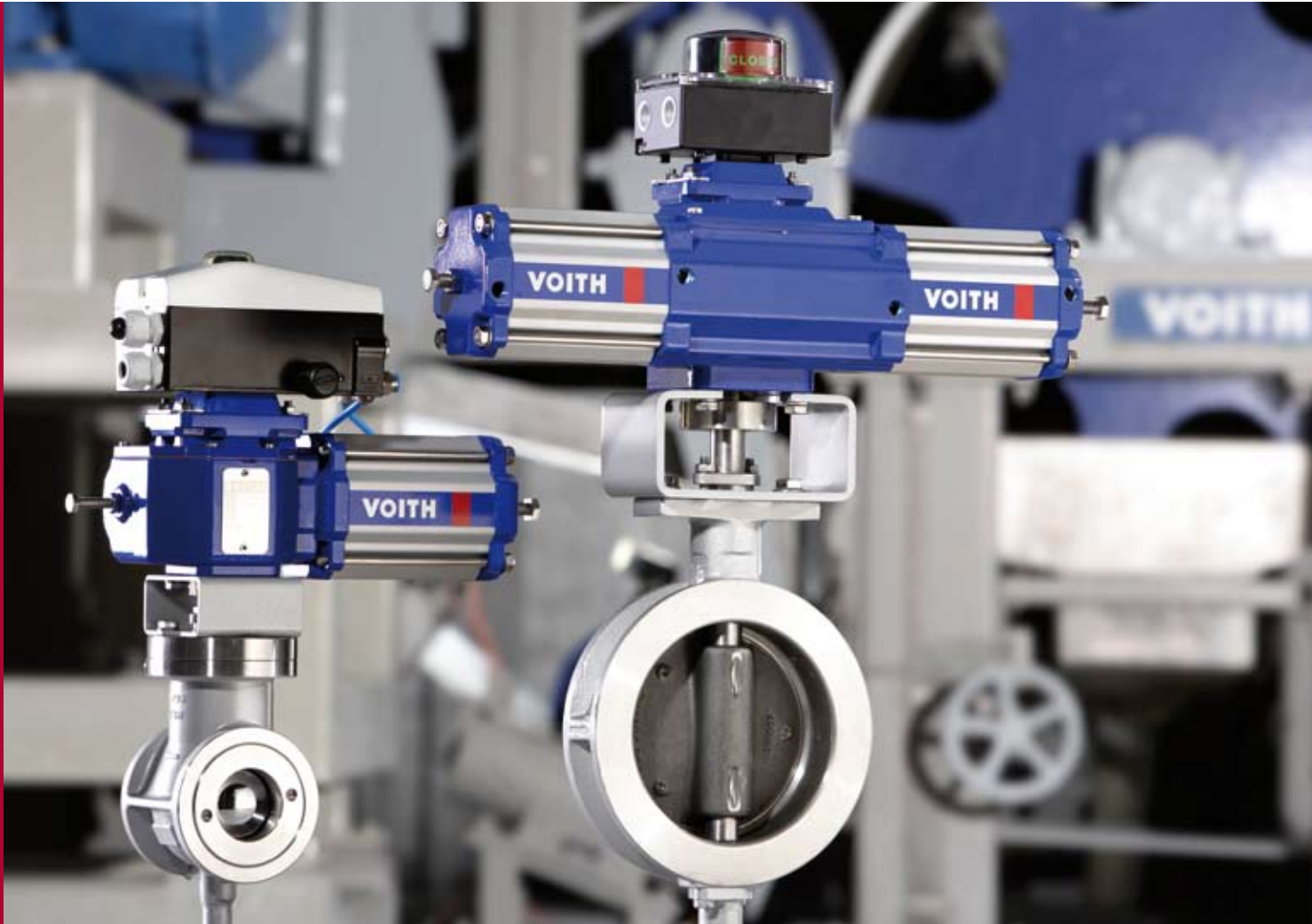
One less interface

Field instruments added to product portfolio

In the middle of last year Voith Paper Automation started the so-called Field Instrument Initiative to provide reliable support to customers and eliminate unnecessary interfaces in the area of field instrumentation.

Field instruments are integral components of every paper machine and make a decisive contribution to the perfect functioning of a mill. However,

plants are often equipped with field devices from different suppliers, making coordination very difficult for the customer. Quotations have to be



On/off & control valves are available in two models: as a ball segment valve with the name "OnC Segment Valve" (left) or the "OnC Disc Valve" butterfly valve (right).

obtained and compared, orders have to be tracked, and deliveries have to be checked: All of this uses up customer resources and leads to a high number of interfaces.

One partner for all needs

Voith Paper Automation hence expanded its product portfolio and since the middle of last year has been offering a multitude of valves and field devices. For this purpose, the company has built up partnerships with a number of firms that are all technological leaders in their respective fields. By now there are already approximately 60 products with different variants being produced exclusively for Voith and according to its design. After the customer has selected the desired field instruments, Voith performs all further steps up to product commissioning. Customers hence profit from guaranteed delivery and constant high product quality, which contribute to smooth, on-schedule start-up of the production line.

On/off & control valves

Thanks to cooperation with the Swedish company Somas Instrument AB, a manufacturer of high-performance valves, on/off and control valves are now part of the permanent product scope. The valves are offered in two different models: as butterfly valves and as ball segment valves. The latter have the advantages of being able to be installed in reject pipes as well as in pulp and water lines and working reliably up to a pulp consistency of 18%. Also, both valve types can be used for steam control and come in low-noise versions for use at high differential pressures.

Level and pressure transmitters

Through a master supply agreement with VEGA Grieshaber KG, Voith Paper Automation offers a comprehensive range of level and pressure transmitters. The transmitters have been adapted to the special requirements of the paper industry and can be used with water, steam, paper

suspensions, coatings, and chemical additives. Due to the robust measuring cell materials (special ceramics or stainless steel), the pressure transmitters can also be used at high temperature or in aggressive media such as sodium hydroxide solutions.

In addition, the special ceramics in particular feature high wear resistance, making the transmitter ideal for use in recycled paper stock preparation from pulping to the headbox. The wide selection of level and pressure transmitters, which are distinguished from each other by means of the measurement method and materials used, ensure that the suitable product can be found for every requirement.

Flow & temperature

Sensors for flow and temperature measurement manufactured by KROHNE Messtechnik GmbH are also in the product portfolio. Like all partner firms, KROHNE is a global leader in its field and is “either the

Product name	Function	Cooperation with
OnC DiscValve	On/off & control butterfly valves	Somas
OnC SegmentValve	On/off & control ball segment valves	Somas
OnC PressSens	Pressure transmitters	VEGA
OnC LevelSens	Level transmitters	VEGA
OnC FlowSens	Flow measurement (magnetic-inductive, vortex, and mass flow)	KROHNE
OnC TempSens	Temperature measurement	KROHNE



Overview of key products.

OnC FlowSens flow meter.

market leader or at least in the top three for all its main products,” according to Stephan Neuburger, CEO at KROHNE. The devices for temperature measurement integrated into Voith’s product portfolio encompass various types of sensors for use along the entire production line. For flow measurement, two measurement methods (vortex frequency and magnetic-inductive) and a device for mass flow measurement are available. Here, too, this ensures that the right device can be supplied for every possible application.

Obvious advantages

A large number of installations worldwide guarantee the reliability of the products. Initial results of use of the Voith product series confirm the success of the Field Instrument Initiative: Through clear assignment of only one contact partner for field instrumenta-

tion, the number of interfaces was reduced significantly and project completion greatly simplified. Through this, customers profit from the lower coordination efforts required, since Voith takes over this task.

Customers are additionally supported in the selection of the appropriate field instruments to ensure that these are optimally coordinated to the plant. If changes are made at short notice during the planning phase for a mill, Voith automatically adjusts the scope of supply of the field instruments. In addition, delivery times and a constant high product quality can be guaranteed. Through the instrumentation provided by a single supplier, integration of the devices into the process control system is simplified and uniform documentation enabled. Maintenance and replacement parts stocking can also be handled more efficiently.

For the papermakers, one of the most important ultimate advantages of the initiative is the combined expertise it provides. Through cooperation between Voith Paper Automation and leading producers, customer wishes with respect to new products or product changes can be implemented better and more precisely. Peter Hägg, owner and CEO of Somas, summarizes as follows:

“Thanks to Voith Paper Automation’s in-depth understanding of the papermaking processes, we will be able to advance development of our valves with focus on the paper industry and on customer needs with Voith as our partner.”

Outlook

The field instrument product portfolio will expand even further. By the summer of 2008, for example, sensors for ash measurement will also be available. A device that measures optical consistency is already included in the product scope; it was developed by Voith for use in the paper industry.



Selection, delivery, installation, and monitoring from one source: inspection of the OnC PressSens pressure transmitter.

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