



ThinkTop® offers an easy way to bring automated control to your system.

Control and Indication

ThinkTop®

Optimum valve control

For reliable automated system control, look to the *ThinkTop*® control and indication unit from Alfa Laval.

ThinkTop offers the most advanced automated control of valves in the industry. Whether you're modifying an existing plant or planning a new installation, *ThinkTop* is right for your process.

ThinkTop's registered design features modularity and flexibility like no other control unit Alfa Laval has ever offered.

Keep reading to find out all the benefits of our *ThinkTop*. You'll see how *ThinkTop*:

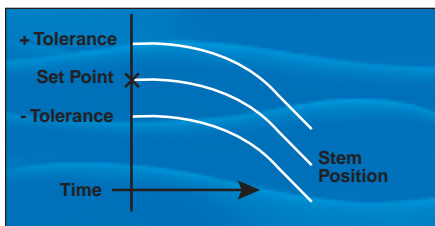
- is self-adjusting when installed
- can be set up without dismantling or readjusting
- fits all air-operated, sanitary valves from Alfa Laval
- includes a wide range of interface modules
- features an integrated maintenance indication for single seat valves
- features an integrated indication of seat lift for mixproof valves
- offers the ability to integrate external signals in the top
- saves set-up parameters until reprogrammed – even in case of power failure

We're sure you'll discover how you can be on top of your process with *ThinkTop*.

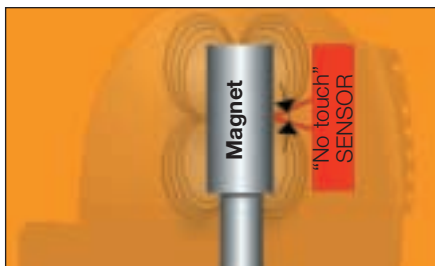


Set it and forget it

In the past, a control unit had difficulty maintaining set parameters entered by the user. With *ThinkTop*[®], you set it just one time – and then forget about it. Using a combination of state-of-the-art, patented sensor system and preset tolerance bands, the *ThinkTop* is self-adjusting, eliminating the need for adjustment over time.



Tolerance Program. Tolerance self-adjustment feature.



Sensor Principle. *ThinkTop*'s unique, patented sensor system can retain its feedback signal over time. Microchips within the sensor system calculate the current position of the valve stem at setup, and it is stored in the unit's memory.

Saving installation time and money

Whether retrofitting to an existing system or in combination with new installations, *ThinkTop* can be easily set up without dismantling or extensive manual adjustment. This saves you valuable time and money. And, installation can be as easy as one flying cable to get you up and running fast. The set-up procedures for the *ThinkTop* are even easier.

Teaching *ThinkTop* the right way

Following the set-up procedure, you first add air to the valve. Then, press just one button on the optional remote control (according to the set-up procedures), or manually set parameters in the top unit. The *ThinkTop* learns these parameters and stores the information in its memory.

Repeat these steps when the valve is closed, and you're ready to go. This same simple process can be used to "teach" the *ThinkTop* a variety of seat lift parameters.

Offering simple integration

Most control tops in the industry only offer open and closed signals. *ThinkTop* goes one step further. In addition to open and closed, *ThinkTop* offers two additional internal signals, external signals, or one of each. The accuracy of the sensor system even allows *ThinkTop* to detect seat lift.

Notifying you of necessary maintenance

ThinkTop also allows you to set a specific time frame, in 90-day intervals, to indicate when normal maintenance on the valve is required. When time has expired, *ThinkTop* will send a signal to the control computer and an orange LED light will illuminate.

Based on the valve's movement along the previously set tolerance band, *ThinkTop* can also tell if elastomers have worn out before scheduled maintenance. Over time, the valve may move outside the tolerance band into an "alert" band, often due to seal wear. While the system retains its feedback signal and continues to operate, you will be notified that maintenance is necessary. Again, an orange LED light will turn on and a signal will be sent to the control system.

This maintenance notification eliminates valve seal leakage and unnecessary shutdown. Learning the condition of your valve before it's too late will ultimately improve its overall performance.

Fits all valves

The *ThinkTop* control and indication unit is so versatile, it can be used on any air-operated, sanitary valve from Alfa Laval – including single-seat, butterfly and mixproof valves. That means you don't have to worry about attaching *ThinkTop* to a specific Alfa Laval valve, virtually eliminating any room for error. And, since one *ThinkTop* fits all valves, any spare purchased can be used for any valve in your application.

Fits most systems

The ability to operate with a variety of interface modules is yet another benefit of *ThinkTop*.

Three levels of communication, including Digital, AS-Interface (simple BUS system) and DeviceNet (advanced BUS system), are all compatible with the *ThinkTop* control unit.



Includes many interface options

Digital

Based on traditional cable architecture, handling inputs and outputs working in conjunction with any PLC.

AS-Interface

Connects binary components like indication sensors, pushbuttons and valve control units to a master control system.

DeviceNet

A standardized fieldbus networking system, offering the most sophisticated communication system.



- Valve in Open position
- IR Receiver, receives signal from remote control (key pad)
- Notifies when *ThinkTop* learns during set-up, or there is a fault on the sensor board
- Valve is performing Seat Lift
- Solenoid valves activated
- Indicates need for Maintenance
- Valve is in Closed position

ThinkTop® has a registered design and patented sensor system.

Providing the world with processing solutions.

Alfa Laval is a leading global provider of specialized products and engineering solutions. Our equipment, systems and services are dedicated to assisting customers in optimizing the performance of their processes, time and time again. We help them heat, cool, separate and transport products such as oil, water, chemicals, beverages, foodstuff, starch and pharmaceuticals. Our worldwide organization works closely with customers in almost 100 countries to help them stay ahead.

Our U.S.-based sanitary group offers Alfa Laval and Tri-Clover fluid handling and heat transfer equipment. Since 1919, Tri-Clover has been the leading supplier of processing equipment to the sanitary flow industry in North America. Part of Alfa Laval since 1986, Tri-Clover's sales and marketing functions were consolidated within the overall Alfa Laval organization in December 2000, creating the undisputed global leader in this industry. Tri-Clover remains a key brand within Alfa Laval.

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