

# Winemaking Applications

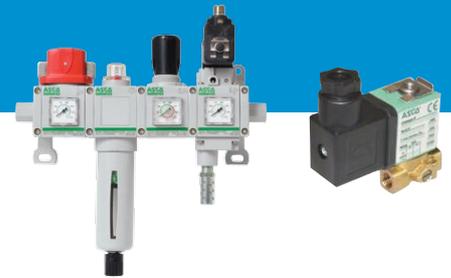


# From the vine to the bottle

The production of wine is a subtle and refined art requiring the careful setting up and close control of many technical applications and processes. From the vine to the bottle, ASCO components will help you to automate and optimise your processes and make them more reliable. A world leader in solenoid valves and general purpose valves, and a key player in the world of pneumatic components, ASCO offers solutions suited to your sector, with standard and specialised products.

## The vineyard

Vine and branch cutting is carried out using pneumatic pruning shears fitted with a filter-regulator.  
Leaf stripping can be carried out using thermal leaf trimmers fitted with solenoid valves.



## Receiving the grape harvest

Shutoff and switching valves are controlled by valve islands or pilot valves.



## The wine presses

Various technologies are used. Pneumatic wine presses integrate solenoid and mechanical valves, and pneumatic components for rinsing operations, opening doors, operating control valves and for the inflation of the sealing joints for doors.



# The vat

## Vat temperature regulation

In order to control the fermentation process and ensure an optimum and consistent quality of the wine, temperature regulation makes it possible to obtain the desired temperature in the vats, regardless of the temperature in the storage area.

Whatever type of heat exchanger you use (immersed coil, immersed "flag" plate or a belt on the vat) and whatever configuration you have in your installations (semi-automatic or automatic heating and cooling or only cooling), ASCO valves will enable you to find the most suitable solution for your process.

### Motorised valves - 290 Series

Installed on the temperature control loop, these valves consume very little power (only 12 Watts during opening or closing). They are available in on/off or proportional versions.

### Solenoid Valves - 210 Series

210 Series solenoid valves do not require a minimum pressure to operate, which minimises configuration restrictions. The cleaning device on the service opening makes maintenance easier particularly when the water has a high limestone content. Nickel plated body and dish. IP 65 stainless steel fixing screws, suitable for humid environments.

### Proportional valves

Proportional valves play an important role in programmable control systems. The combination of intelligent electronics and pneumatic power offers new and innovative solutions for the most varied applications (such as scraping and cleaning pipes, vat pressurisation, temperature control etc.).

### Pneumatic Valve Islands - 501 Series

Monitor your production processes, set parameters and carry out diagnostics easily using the visual display on our pneumatic valve islands. The flow rate of the valve is 400 litres per minute with a width of only 11 mm, which enables the system to control valves which are located a long distance apart. The islands can be fitted in a stainless steel cabinet delivered ready for use, which saves engineering time with the wiring, creates extra space, and can withstand frequent washing.

### Cylinders for the treading process - 454 Series

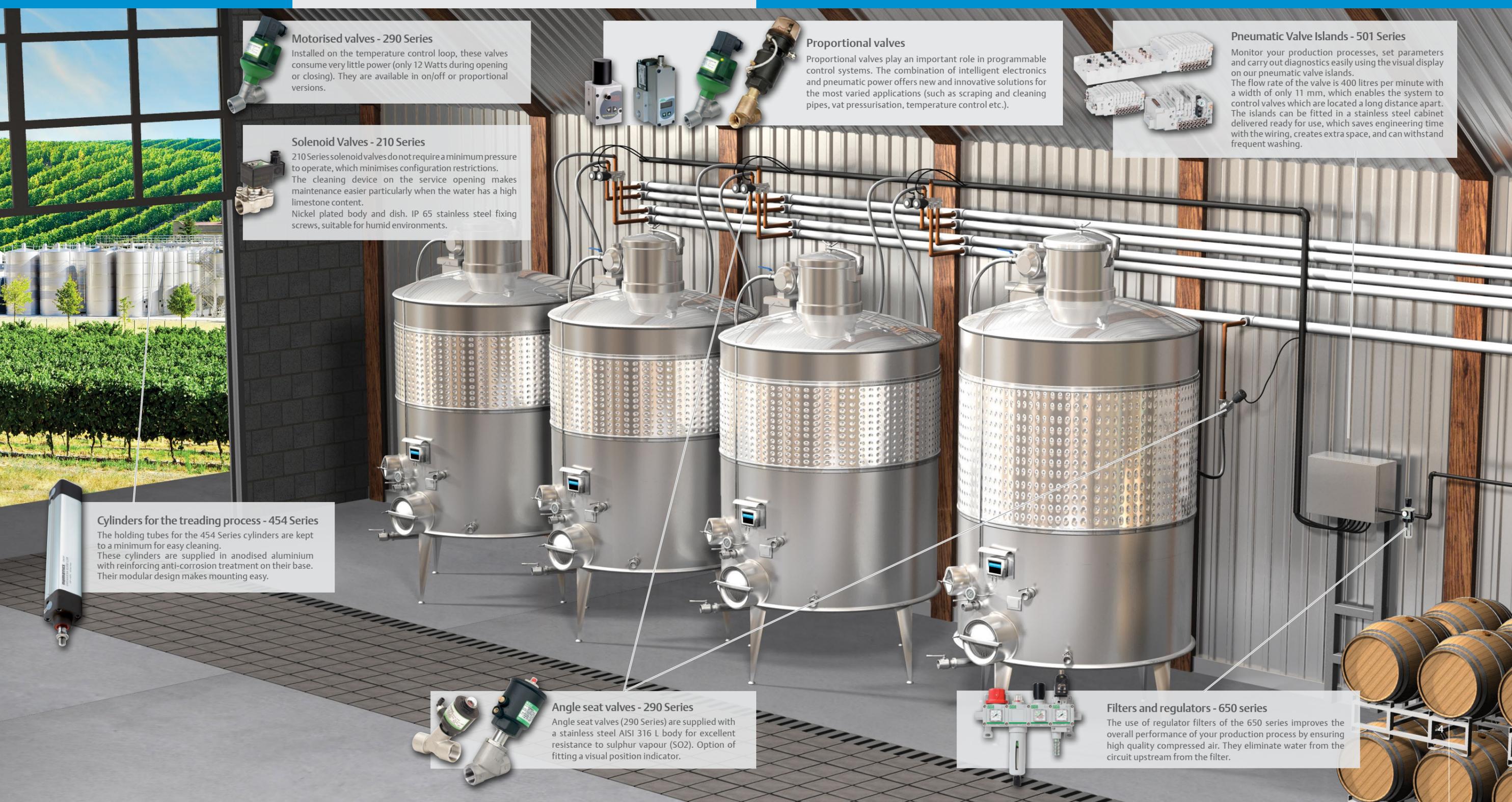
The holding tubes for the 454 Series cylinders are kept to a minimum for easy cleaning. These cylinders are supplied in anodised aluminium with reinforcing anti-corrosion treatment on their base. Their modular design makes mounting easy.

### Angle seat valves - 290 Series

Angle seat valves (290 Series) are supplied with a stainless steel AISI 316 L body for excellent resistance to sulphur vapour (SO<sub>2</sub>). Option of fitting a visual position indicator.

### Filters and regulators - 650 series

The use of regulator filters of the 650 series improves the overall performance of your production process by ensuring high quality compressed air. They eliminate water from the circuit upstream from the filter.





## The vats

We have automated many functions such as temperature control, grape-treading, opening hatches and doors, micro-oxygenation and collection of the press-must.



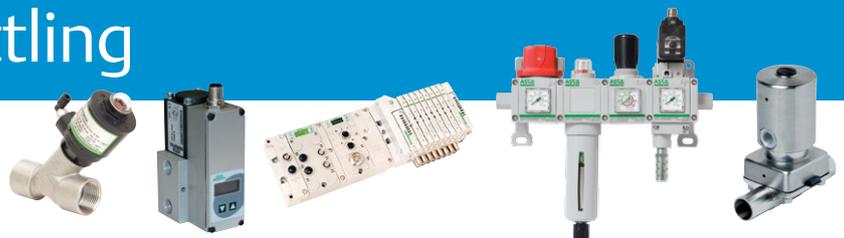
## The barrel cellars

In order to ensure the barrels can 'breathe', the humidity and temperature of the cellar is controlled using solenoid valves and proportional valves.



## Treatment and bottling

**Filtering, treatment, bottling, labelling, packaging.**  
All of these processes use machines that require a number of pneumatic automation components.





## ASCO Express

ASCO guarantees quick delivery on a wide range of products. Certain products can be shipped the same day for any order placed before midday. You will therefore minimise the time during which your applications are shut down and make considerable gains in productivity.

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