

Industrial Alcohol Distillation Process and Equipment

At BM Engineering we pride ourselves on the professional service and high-quality equipment that we supply to the distilling industry. Distilling is one of our biggest sectors, providing only the best brands for distilleries throughout Scotland and the rest of the world.

Our product range has continually increased due to the ever-rising demand for distilling valves, instrumentation and associated equipment within this sector. We have the exact distilling valves to meet your unique requirements.

Before any equipment can be purchased and installed, we must first understand the industrial alcohol distillation process. Below you will find information on the industrial alcohol distillation process and equipment.

What is the alcohol distillation process?

The distillation process is the method of separating the substances from a liquid mixture by boiling and condensing. The distillation of fermented products is what produces distilled beverages with a high alcohol content. At BM Engineering, we supply a variety of whisky distilleries in Scotland including Glen Moray Distillery. Therefore, we have an in-depth understanding of what is required.

There are several steps to the basic industrial alcohol distillation process. These include:

- 1- Begin with some kind of fermented alcohol, usually wine or beer. Or more accurately, wash. Wash is the finished product of fermentation that is ready for distillation for the first time.
- 2- Heat the wash. The alcohol in the wash will turn to steam before the water does, this is due to the fact that alcohol boils at a lower temperature than water. The alcohol will then rise up in the still.
- 3- Collect the alcohol vapours.
- 4- Chill the vapours so they condense back into a liquid.
- 5- Collect the alcohol from the still.

Industrial alcohol distillation equipment

At BM Engineering, we supply a range of distilling equipment to help support your industrial distillery processes. Our extensive knowledge and years of experience working with the distilling industry, ensure we are able to supply the correct product for each stage of the process.

BM Engineering can assist you throughout each stage of the distilling process, from malting through to maturation. We have high-quality equipment for your precise distillery installation demands, whether you are looking to upgrade and expand your current distilling operations or start from scratch with a brand-new distillery. View our range of products below.

Inoxpa

An example of a manufacturer who can provide an entire solution for the distilling industry, especially for demanding hygienic processes, is Inoxpa. Their products include butterfly valves, check valves, overflow valves, strainers and pumps. BME can supply a full range of their equipment for all your application needs.



Unitech

The Unitech split bodied, solid PTFE seated butterfly valve was developed especially for the distilling industry. This valve can be used in both manual and automated distilleries.



Orbinox

For the mashing process in the distilling sector, we have Orbinox EX and BC knife gate valves. The mashing process requires precise valves, to achieve the right end product.



Zwick

To meet the demand for double block and bleed isolation on steam lines, BME supplies the Zwick tri-block valve due to its efficient performance and space-saving properties.



NTC

We also provide specific products for precise applications. For example, the NTC ball valve. This valve is used for critical applications within the distilling process, such as a still outlet, charging, discharging and vent valves.



ADCA

All of BM Engineering's steam products within the distilling industry are sourced from ADCA. ADCA provide equipment for all your distilling requirements. For example, steam control valves, reducing valves, heat exchangers separators and steam traps.



Max Air Technology

An 18-year partnership means that Max Air is BME's go-to brand for all of our quarter turn actuation products. They cover a broad spectrum of classifications, as well as being designed in accordance with NAMUR VDI/VDU 3845, ISO 5211 and certified ATEX.



To learn more about the industrial alcohol distillation process or to purchase our industrial alcohol distillation equipment, get in touch today on **0141 762 0657** or email us at sales@bmengineering.co.uk.

BM Engineering can provide assistance and advice about each piece of distilling equipment for your particular distillery installation. We can supply products for both upgrades and expansions of current or new distilleries. Get in touch today!