

## **OIL, GAS, FOOD, PHARMACEUTICALS: WHATS THE CONNECTION?**

The industries for oil and gas production, food and beverages and even pharmaceuticals don't seem to have any obvious connection at first glance. However, none of these sectors would be able to function correctly without the use of high-quality filters.

It's easy to take filtration for granted, but without a system to clean, preserve and protect the critical machinery used in a range of crucial fields, we wouldn't have the essentials we rely upon today. In a world without filters, everything from reliable power to medicine and clean water would be difficult to find.

The right filtration system is essential to protecting equipment and preventing contamination by removing potentially harmful particles from your industrial environments. Let's take a look at the filtration needs of 3 of the world's most important fields.

### **FILTRATION FOR CHEMICAL, OIL AND GAS COMPANIES**

Croft has been working with experts in the chemical, oil and gas industries for years now. We know first-hand, just how vital the right baskets, sieves, and screens are to defending the machinery in this sector. Separating, treating, and properly disposing of water produced by chemical, gas and oil refineries is one of the most challenging dilemmas facing the industry today.

Just some of the filters that companies in this area rely on include:

- ◆ Inlet gas separation filters: Gas needs to be processed to remove solid and liquid contaminants before amine sweetening. Usually, this involves using multiple particulate filters, blends, and multi-stage separators.
- ◆ Produced water filtration: The contaminated water produced during industrial operation requires significant filtration for reuse or disposal. The industry relies on cyclones, degassers, and even polishing filtration for this purpose.
- ◆ Coarse filtration: The use of coarse filtration is a critical step in protecting oil and gas machinery further downstream. The filters remove bulk contaminants including seashell, silt and sand fragments during processing.
- ◆ Glycol Dehydration: Common problems with glycol dehydration usually trace back to excessive solid and liquid contaminants in the processing stream. Polypropylene and nylon filters ensure better outcomes for our clients.
- ◆ Guard and fine filtration: Removing even the finest particles from the water to be injected into gas and oil machines is crucial to protecting your equipment investments.

### **FILTRATION FOR FOOD AND BEVERAGE BUSINESSES**

Preventing contamination is crucial in any industry, particularly the food and beverage sector. This is a space with some of the strictest standards for hygiene in the world, which means that specially designed filters are crucial to maintain the highest levels of cleanliness. At Croft, we have created a range of unique filtration solutions specifically for the food and beverage space. With screens, baskets, and strainers deployed in a range of materials and sizes, we can help companies from all across the food and beverage environment, including:

- ◆ Winemakers who need filter devices to remove organisms responsible for spoilage and flavor-harming particulates. These filters preserve taste and color while eliminating unwanted debris.
- ◆ Brewers and beer producers in search of critical filtration systems to keep the desired elements of a beer and remove the unwanted parts, including leftover hops, barley, and yeast.
- ◆ Natural food producers who want to extend the shelf life of fruit juices and preserve their flavors without artificial ingredients. The right sterilising filtration systems lead to a better reputation for brands, and improved experiences for customers.

◆ Soft drink companies that need a number of filters for everything from water treatment to the removal of bacteria. Filters are often used for storage tanks, container wash water, and even the gasses required to carbonate beverages.

## **FILTRATION FOR THE PHARMACEUTICALS SECTOR**

Even the pharmaceutical sector relies on filtration. At Croft, we have spent years supporting the companies that deliver medicines to our communities, both in Europe and beyond. Our high-quality sieves preserve crucial specifications within pharmaceuticals while eliminating dangerous contaminants. In the medical world, separation and filtration processes are critical to ensure that products remain safe for patients, and to stop companies from losing valuable products to waste. From research through to production, the pharmaceutical industry needs to adhere to the highest standards. Often, their filtration needs involve:

◆ The filtration of products during biopharmaceutical production, including buffer preparation, bioreactor support, and cell culture harvesting.

◆ Solvent filtration in the development of active pharmaceutical ingredients, and the blending of various combined substances to produce a final medical compound.

◆ Autoclave vent filtration to prevent external contamination to the final product. Along with pre-filtration of ingredients for the removal of solid impurities and undissolved particles.

◆ Bioburden minimisation for the reduction of bacteria or particles allowed to reach the final filtration stage, and sterile filtration of the final product.

◆ Sterile water-for-injection filtered before use for diluting and dissolving drugs for blending and mixing.

◆ Sterile filtration of gas for fermentation and aeration purposes during medical substance production.

No matter the industry, we can produce the custom, bespoke, and unique filters required to keep your business sterile and safe. Contact Croft Filters today to find out more about your filter options.