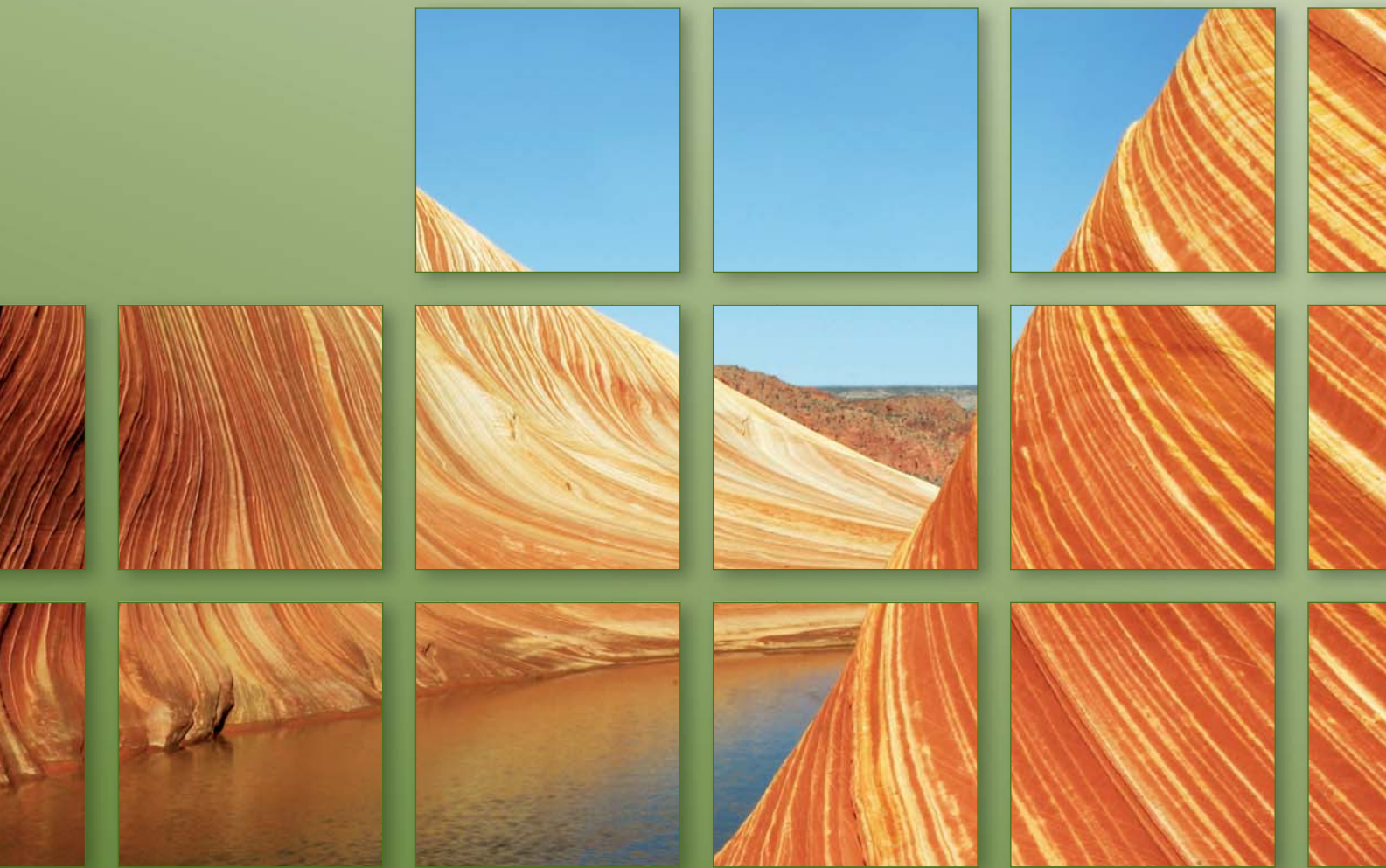




# Peerless Europe

Incorporating:  BURGESS-MANNING EUROPE



*separation & filtration*

making energy safe, efficient and clean



Peerless, a recognised global leader committed to innovation, its people and a better world, by creating engineering solutions for the energy industry.



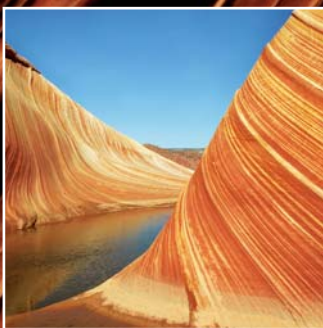
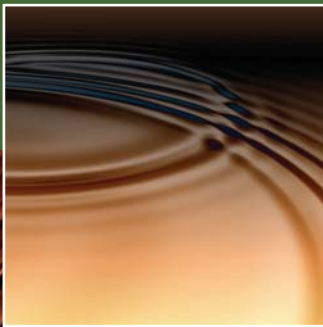
### **Peerless Separation and Filtration Systems**

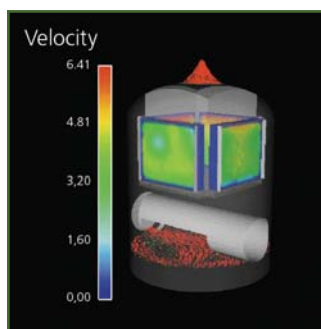
Since 1933, Peerless has been designing and supplying compact, cost-effective gas and liquid filtration/separation equipment to the oil, gas, petrochemical and power industries throughout the world.



### **Peerless Support Services**

The aftermarket sales and spare parts support from our UK office, with state-of-the-art performance simulation and testing at our Dallas-based parent company, provides our clients with an industry leading service and support package, from first contact through to installation and beyond.





## Product Applications

- Inlet to gas production facilities.
- Gas gathering stations and transportation facilities.
- Gas processing facilities.
- Gas Compressor protection.
- Gas Turbine protection.
- Removal of lubricating oil from the discharge of compressors.
- Removal of oil mist upstream of desiccant beds in ammonia and urea plants.
- Removal of mist and solids from natural gas at pressure reduction and regulator stations.

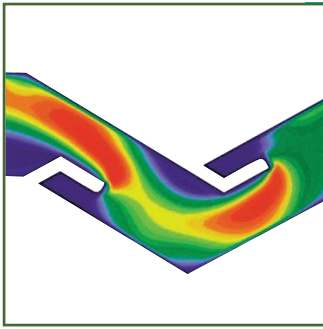
## Research and Development Computational Fluid Dynamics (CFD)

- An essential tool when considering critical separation processes, troubleshooting and retrofit applications.

## Laser Isokinetic Sampling Probe (LISP)

- Onsite testing.
- Determines the optimum separation/filtration technology for the application.
- Validates equipment performance.





The range of Peerless Separation and Filtration solutions includes:

### Vane-Type Separators

- High efficiency separation of entrained liquid from vapours.
- Vanes provide a compact solution when compared to the traditional wire mesh pad design.
- Vane-type separators will remove 100% of all liquid droplets 8 microns and larger with the outlet gas containing no more than 0.1 USG/million standard cubic feet of gas passing through the separator (13 litres/Million SCM).



### Multi-Cyclone & Axial Flow Cyclone Separators

- Comprising a quantity of small diameter cyclones.
- Multi-Cyclone Separators will remove 100% of all liquid and solid particles 8 microns and larger.
- Centrifugal Recycling Separator (Swirl Tube) will remove 100% of all liquid 6 microns and larger.



### Coalescing Absolute Separators

- Two stage unit consisting of first stage vane or cyclone for bulk contaminant removal followed by second stage coalescing element for fine polishing.
- Coalescing Absolute Separator will remove 99.999% of all liquid droplets 0.3 microns and larger. Mass carryover down to less than 1ppb.

### Filter Separators

- Two stage unit consisting of first stage filter for solid removal followed by second stage vane mist extractor for liquid removal.
- Filter Separators will remove 100% of all liquid droplets 8 microns and larger, 99% of those 0.5 – 8 microns, 100% removal of solid particles 3 microns and larger and 99% of those 0.5 – 3 microns.





## Gas Filters

- Contain a quantity of replaceable filter cartridges.
- Removes all solid particles 3 microns and larger and 99% of those 0.5 – 3 microns.



## Liquid Filtration

- Cartridge filter system for high efficiency removal of solids from liquids.
- Two-stage cartridge filter/separators for high efficiency removal of solids and water from liquids.
- Activated carbon adsorbers for removal of hydrocarbons and degradation products from closed loop amine and glycol systems.

## Process Packages

- Fuel gas conditioning systems for supplying clean, regulated gas for gas turbines and boilers.
- Production Separation Trains and Process Modules.
- Each system engineered specifically to meet the individual needs of the customer.



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