

**PEERLESS**  
Petrochemical

# Peerless Leadership in Chemical and Petrochemical Separation and Filtration



- Efficiently Designed Separation Systems
- Cost Effective Retrofit Internals
- Innovative Problem Solving
- Technology Leadership

# Peerless Chemical & Petrochemical Separation and Filtration Equipment Can Save You Money Across the Entire Plant!



**Peerless V-Bank Internals** are used to increase the liquid handling capacity and gas flow through existing separators. They are custom designed for quick and easy retrofit in the field.  
[Ask for Bulletin 0420.](#)



**Peerless Mist Extractor Internals** at the top of a gas process tower will provide high efficiency separation and protect downstream equipment.  
[Ask for Bulletin 0420.](#)



The **Vertical Multi-Cyclone Scrubber** is designed to remove liquids and dry impurities by means of centrifugal force.  
[Ask for Bulletin Series 11400.](#)



The **Line Separator** is used to remove entrained liquids. It can be installed as an in-line unit.  
[Ask for Bulletin Series 11400.](#)



**Selective Catalytic Reduction (SCR) Systems** reduce NOX emissions from industrial combustion sources.  
[Ask for Bulletin Series 0420 and 0421.](#)



An **Absolute Separator** provides ultra-high efficiency for the removal of submicron liquid particles.  
[Ask for Bulletin Series 0420.](#)



**Peerless Pulsation Dampeners** protect reciprocating compressors and pump piping systems from damaging vibrations which occur during operation.  
[Ask for Bulletin 0420-0420-0421.](#)

## Peerless...your Petrochemical Problem Solver

In any industrial process where liquid and vapor come together, you will certainly find entrained liquid in the vapor and a potential application for Peerless systems and equipment. With over 6 decades of separation and filtration experience, Peerless has seen most all of them.

Peerless Mfg. Co., a world leader in separation and filtration technology and equipment, is a proven problem solver when it comes to entrainment removal. Peerless' Proprietary Sizing™ program will reduce your new plant separator vessels by several sizes. Or, revamp your existing process separator internals to significantly increase the liquid handling capacity of your current separators throughout the plant.

## The Peerless Problem Solving Tool Kit includes:

- Experienced, Separation Applications Engineers to examine your special needs.
- Laser Isokinetic Sampling Probe (LISP)™ to accurately and reliably collect and weigh entrainment around problematic equipment on-site in your plant.
- Computational Fluid Dynamics (CFD) capability to analyze gas flow paths in your new process or existing separators and to evaluate new high performance Peerless configurations for your plant.
- Fully-equipped, state-of-the-art R&D Laboratory to confirm complex solutions through actual testing, if required.

**Peerless Vertical Gas Separators** are very efficient mist extractors in applications where high liquid capacity is required. Ask for Bulletin Series 13000.



A **Peerless Swirl Tube Separator** provides ultra-high efficiency removal of liquid particles with low solids concentrations at high gas throughput. Virtually maintenance free. Ask for Bulletin Series 10000.



A **Peerless Horizontal Gas Separator** is designed for high efficiency separation of low liquid/high gas or high liquid/low gas slugging applications. It can also be designed for 3 phase applications. Ask for Bulletin Series 14000.



The **Peerless Filler/Separator** saves on initial cost, filter cartridge change-out time and space. High capacity inertial vanes remove coalesced liquid droplets from the gas stream. Ask for Bulletin Series 24000.



**Peerless Dry Gas Filters** are designed for maximum operating and change-out efficiency. A quick-release filter cartridge retainer saves on replacement time and costs. Ask for Bulletin Series 23000.



In plants where gas turbines are used, Peerless provides **Fuel Gas Conditioning Systems (FGCS)**. Ask for Bulletin Series 15000.



### Timely Peerless Innovations

An in-house CFD Department and adjacent R & D lab enables Peerless Applications Engineers to perform calculations and tests to verify cost effective application solutions. Advanced CFD models coupled with actual testing ensure that Peerless solutions to your entrainment problems are achieved to your satisfaction. Ask for Bulletin 9909.



### In-Line Testing

Peerless Mfg. Co. has a unique, field sampling tool for pressurized gas streams. Laser Isokinetic Sampling Probe (LISP) collects and weighs entrained liquids and solids both up and downstream of separators or filters, even

at very high system operating pressures. The result is the most dependable, on-site, in-line sampling of Petrochemical processes in the industry! Ask for Bulletin 1002.



### Cost Effective Retrofits

If your process requires more capacity, upgrading with Peerless separator internals eliminates buying larger diameter separators saving you 80 to 85% on new equipment. This cost effective action simplifies your plant expansions and saves you downtime. Simply retrofit your existing vapor/liquid separators with Peerless high performance internals. It's as easy as that. Ask for Bulletin 0003.

# PEERLESS

## Your Global Single Source Separation Supplier

### Typical processes where products are applied & installed

- Ethylene
- Propylene
- BTX
- Acrylic Acid
- Vinyl Chloride
- Amines
- EG/EO
- Ammonia
- Urea
- Methanol
- Styrene
- DMT
- Polymers
- Acetic Acid

### Representative Customers

- Arcadian Fertilizer
- Amoco Chemical
- General Electric (FGCS)
- BASF
- Exxon Chemicals
- Chevron (SCR)
- Dow Chemical
- E.I. Dupont
- Eastman-Kodak
- Proctor & Gamble
- Mobil
- Monsanto
- Phillips Petroleum
- Union Carbide

Peerless...  
..the Global leader  
in Separation  
and Filtration



"Over 3,500  
units installed  
in the CPI  
worldwide"

# PEERLESS

## Around the World

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