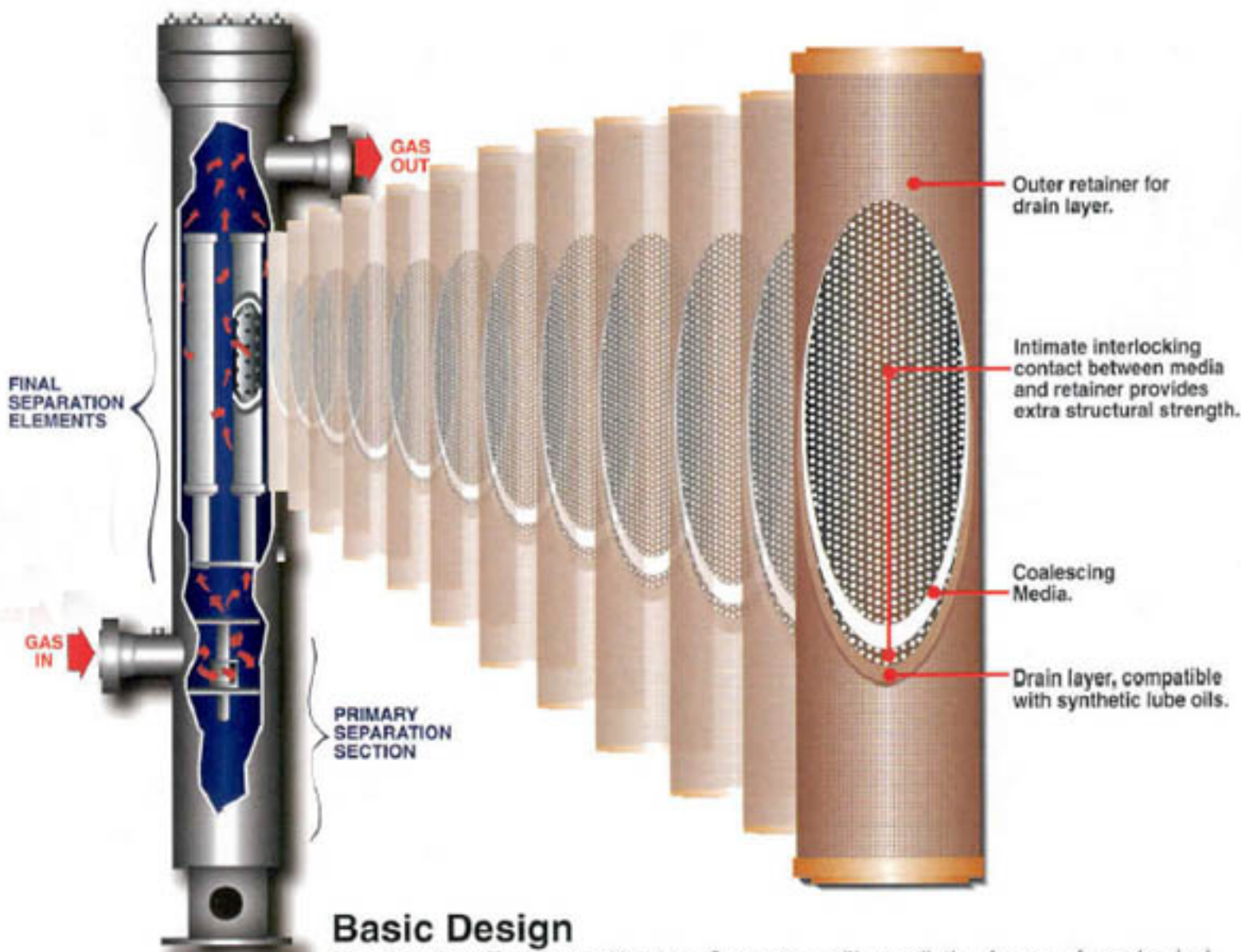


For Maximum Gas/Liquid Separation Efficiency In Critical Services



Basic Design

The Peerless Two-stage Absolute Separator utilizes all the forces of mechanical separation. The primary separation section is used to decrease the liquid and/or solids loading in the gas stream. This is accomplished through the use of Peerless proprietary separating devices such as its high efficiency inertial vanes or its multi-cyclone packs. Proper liquid separation is imperative to ensure maximum life and efficiency of the final separation elements.

The final separation section utilizes High Efficiency Coalescing (HEC) Elements which are cylindrical, fibrous vacuum formed elements with a controlled pore structure. The result is a seamless tube with a matrix of micro-fibers having up to 95% void fraction. This design offers lower maintenance costs by extending the element life.

The two stages are combined into a single pressure vessel which reduces installation costs.
Ask for Bulletin 25000.



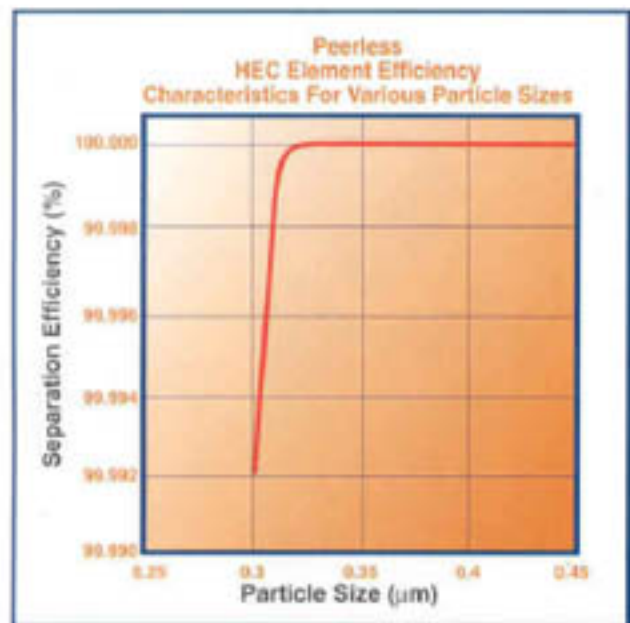
An Absolute Separator provides high efficiency removal of submicron liquid particles throughout the design flow range.



This Absolute Separator is installed in Argentina to protect the fuel gas intake to a gas turbine. This unit was designed to limit liquid carryover to less than 1 ppb.



This Peerless proprietary Laser Isokinetic Sampling Probe (LISP™) technology, designed to accurately and reliably measure particles as small as 0.3 microns inside an operating pressure vessel, was used on-site in Argentina to measure liquid carryover from the separator during operation.



In this Argentine Fuel Gas application, the actual field tested performance, measured by the Peerless LISP™ system, is only 0.4343 ppb carryover, well below the 1 ppb guarantee.

Coalescer Media Specifications⁽¹⁾

Media Designation	Efficiency 3 to 6 Micron Particles %	Pressure Drop PSID @ Rated Flow ⁽²⁾		Maximum Solid Particle Passed (µm)
		Media Dry	Media Wet With 10-20 wt. oil	
S.1	99.999	1-1 1/2	6-8	.1
S.2	99.995	1-1 1/2	3 1/2-5	.2
S.3	99.97	1-1 1/2	2-2 1/2	.3
S.4	98.5	1-1 1/2	1-1 1/2	.4

⁽¹⁾ Various media are available depending on application and efficiency requirements.

⁽²⁾ At Rated Flow, depending on separation specification.

Consult a Peerless specialist for your separation, retrofit and spares requirements.

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