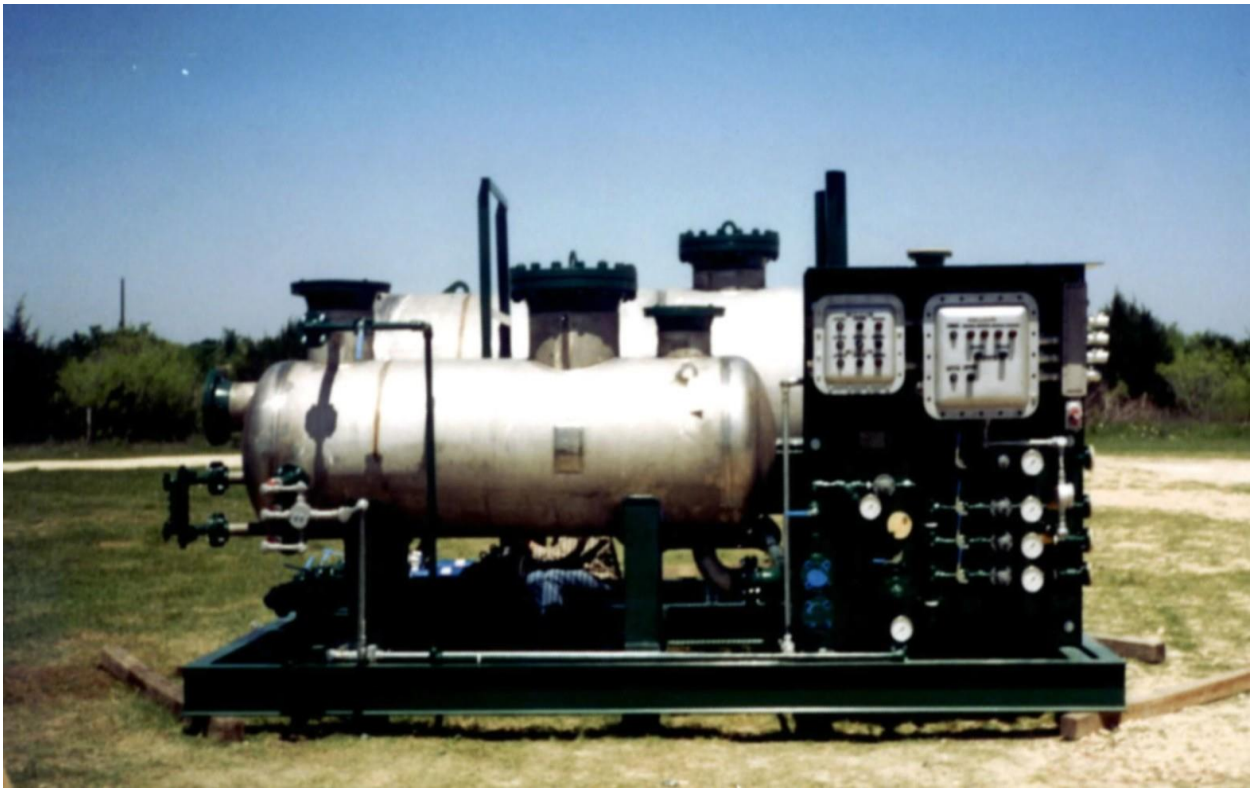
Knockout Drum



Description

Whenever a process requires that entrained droplets be removed from a vapor stream, AEREON's Flare Industries includes a knockout drum in the system design. Condensation can occur when hot process gases cool considerably in the flare gas header and riser, and some gases also go to dew point at ambient temperatures and pressures and can therefore generate liquids. These droplets must be removed in order to avoid the phenomenon known as flaming rain, which occurs when liquid droplets are blown out the top of a flare stack along with ignited process gases.

In order to avoid this hazard, AEREON's Flare Industries provides the knockout drum. Designed to remove particles as small as 50 microns in size. The vessel can be outfitted with a wide variety of instrumentation. AEREON's Flare Industries provides both horizontal and vertical configurations.

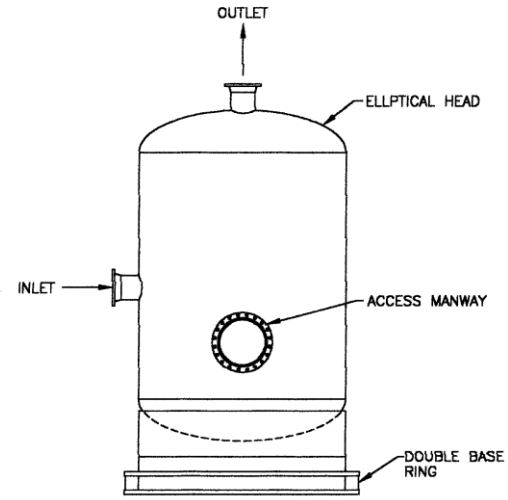
Advantages

- Disentrains liquid droplets
- Prevents flaming rain
- Reduces flare smoke
- Recovers liquids

Knockout Drum

Principal Applications

- Gases that go to dew point at ambient pressures and temperatures
- Hot gases
- Heavy hydrocarbons with a tendency to condense
- Terminal loading facilities
- Refineries



Knockout Drum

Dimensions

DIAMETER

24” to 180”

HEIGHT

5’ to 50’

WALL THICKNESS

Varies

MATERIAL

Carbon steel, stainless steel, others

ASME CODE DESIGN

By customer request

STYLE

Cyclonic or traditional

Design Features

- Automatic liquid level controls
- Specially designed separation internals
- Inspection opening
- Drain
- Used in combination with liquid seal