ENCORE COMBUSTION

Liquid Seal Drum

GENERAL:

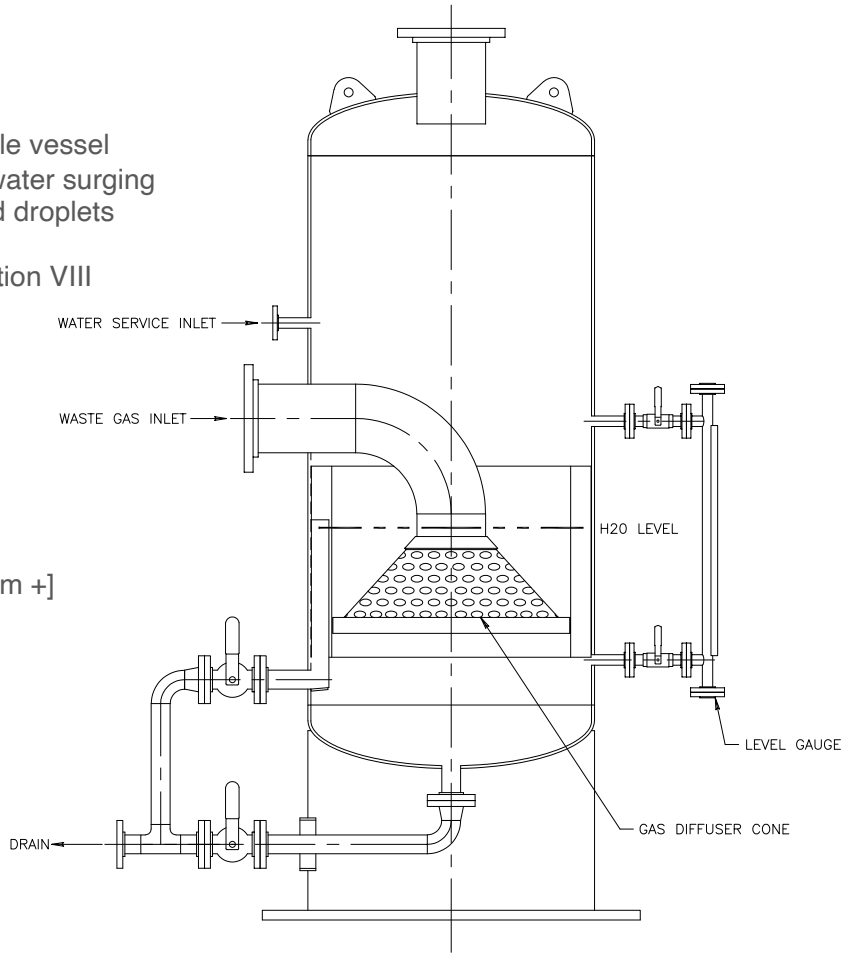
- Designed to prevent flashback by creating a water barrier between the flare and the waste gas source
- Waste gas flows into the liquid seal and down through a submersed conical exit baffle
- Designed to bubble the waste gas through the water to ensure there is no path for a flashback to penetrate the water barrier
- Often used to stage or control flow rates to multiple relief devices

SELECTION CRITERIA / ADVANTAGES

- Prevents flashback of gas types a through d
- Creates positive pressure in the flare header
- Will collect entrained liquids before reaching flare tip
- Multiple units can be utilized for staging purposes

DESIGN FEATURES

- Automatic water level control system available
- Can be combined with a knockout drum in a single vessel
- Proprietary diffuser and baffle system minimize water surging
- Includes a skimmer to remove hydrocarbon liquid droplets
- No moving parts
- Can be designed and stamped as an ASME Section VIII pressure vessel



SPECIFICATIONS

DIMENSIONS:

- Standard height / length: 5’ - 50’ + [1.5 m – 15.2 m +]
- Diameter: 24” - 144” + [610 - 3658 mm +]

STANDARD MATERIALS:

- Internals: stainless and carbon steel
- Vessel: carbon steel

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