

### Design Features

- Liquid flow rates: 14 - 280 GPM
- Spray pattern: Flat Fan
- Multiple orifice injection of two-phase mixtures
- Orifice sizes up to 0.625"
- S-shaped vanes act as a static mixer for two-phase flows ensuring a homogeneous spray
- Single inlet provides easy retrofit into existing piping
- Typically designed with 4" and 6" feed pipe size
- Available in various alloys including chrome moly steels; austenitic stainless steels including 316L, 304H, and 347; and cobalt alloy AMS 5387 for superior abrasion resistance
- Available with any size and weight ANSI flanges
- Can be fabricated in accordance with ANSI B31.3
- Manufactured in-house at BETE to ensure superior quality

### Common Applications:

FCCU Feed  
Gas Cooling

### Spray Characteristics

- Uniform flat fan pattern for improved liquid dispersion
- Provides good atomization at low pressure drop
- Two-phase atomization allows a wide range of flow rates to accommodate design, turndown and maximum feed conditions

