

U-Boom

Reduce heat radiation and fire risk from burners

APPLICATIONS

- Support for and access to the burner and piping

BENEFITS

- Reduce heat radiation and fire risks for increased rig personnel safety

FEATURES

- Modular design
- H₂S service suitability
- Two or three sections
- Piping for oil, water with filter, air with check valve, and propane, in addition to one gas flare

A modular boom design for flaring operations

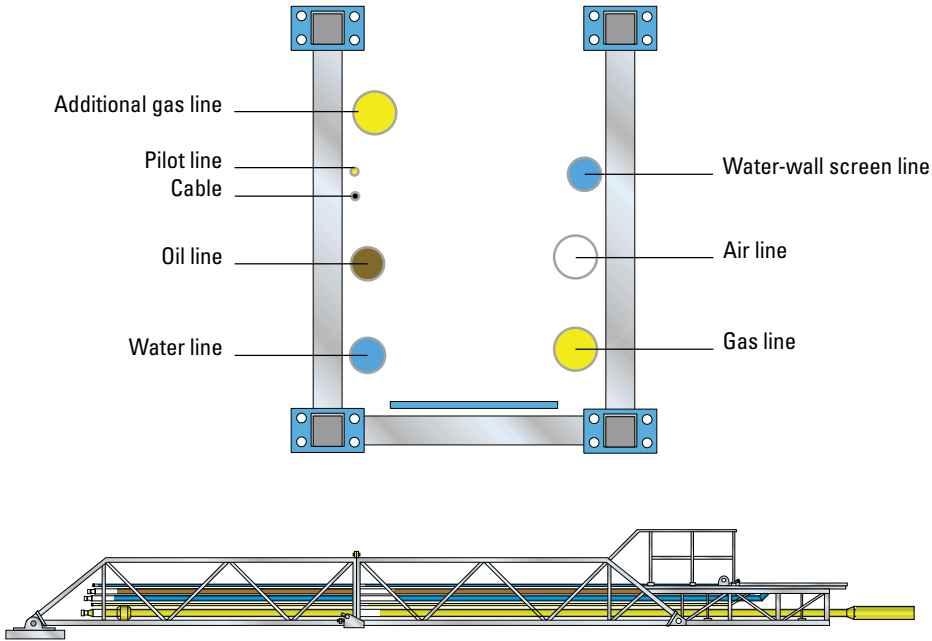
Burners efficiently dispose of oil produced at the surface during offshore well tests, but the flares must be kept at a safe distance from the rig structure. To reduce heat radiation onto an offshore platform or drillship and to protect rig personnel, the burners are supported by long booms.

The U-boom is a modular design, typically consisting of two sections that extend approximately 60 ft [18 m]. By adding an intermediate section, the boom can be lengthened to about 85 ft [26 m].

The structural design of the U-boom allows access to the burner and supports pipes that are laterally positioned on the boom sides. These pipes supply the burner with air, water, oil, and propane.

The U-boom is mounted on the rig with a rotating base plate and guy lines. Horizontal guy lines help orient the boom; vertical guy lines, which are fixed to the rig's main structure, support the boom. The rotating base enables horizontal and vertical positioning of the boom and burner. The boom is positioned slightly above horizontal so that any oil left in the piping after flaring operations does not leak out and cause pollution.

To ensure nonhazardous burning in changing wind directions, two booms are typically installed on opposite sides of the drilling platform or drillship.



U-Boom.

Specifications

Model	UBM-DA	UBM-EA	UBM-F	UBM-G
Service	H ₂ S	H ₂ S	H ₂ S	H ₂ S
Length, ft [m]	60 [18]	85 [26]	60 [18]	85 [26]
Width, ft [m]	2.92 [0.89]	2.92 [0.89]	2.92 [0.89]	2.92 [0.89]
Weight, lbm [kg]	10,803 [4,900]	15,212 [6,900]	10,803 [4,900]	15,212 [6,900]
Working temperature, degF [degC]	-4 to 212 [-20 to 100]	-4 to 212 [-20 to 100]	32 to 212 [0 to 100]	32 to 212 [0 to 100]
Wind capacity, † mi/h [km/h]	99 [160] lateral velocity	99 [160] lateral velocity	99 [160] lateral velocity	99 [160] lateral velocity
Connections, Fig. 602 female/male				
Air, in [mm]	4 [101.6]	4 [101.6]	4 [101.6]	4 [101.6]
Oil, in [mm]	3 [76.2]	3 [76.2]	3 [76.2]	3 [76.2]
Gas ‡, in [mm]	3 [76.2]	3 [76.2]	3 [76.2]	3 [76.2]
Water, in [mm]	3 [76.2]	3 [76.2]	3 [76.2]	3 [76.2]
Applicable codes	ANSI § B31.3	ANSI B31.3	ANSI B31.3	ANSI B31.3

† Dynamic, no ice

‡ Optional 4-in [101.6-mm] and 6-in [152.4-mm] connections are available.

§ American National Standards Institute

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