

## Firefighting System for Crude Oil Storage Tanks



Application: Fire water / Foam solution piping system

Location: Muscat, Sultanate of Oman, Tank 109 - October 1992

Product: 6" Aliphatic Amine Series 800 Line Pipe (Designed according to API 15HR)  
8" Aliphatic Amine Series 800 Line Pipe (Designed according to API 15HR)  
6" and 8" Aliphatic Amine Series Fittings - Elbows, Tees, Flanges

Joining System: API 8rd Advanced Composite Thread (ACT) Threaded and Coupled

Quantity: 6" - 560 ft. (170 m)  
8" - 4000 ft. (1200 m)

Product Conditions: Design Pressure: 800 psi (55 Bars)  
Pressure Rating: 235 psi (16,5 Bars)

Design Temperature: 200°F (93,3°C)  
Temperature Rating: 180°F (82°C)

Test Pressure: 360 psi (24,75 Bars)

***Installation: Firefighting System for Crude Oil Storage Tanks***

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Installation: Sea water is used as fire water. Two 8” Glass Reinforced Epoxy (GRE) lines are routed from the existing hydrant lines to form a main around a new crude oil storage tank. Both lines are connected to the 8” GRE ring main around the tank. An above ground 6” carbon steel is connected to a foam proportioning unit. From this unit, the buried part of the foam solution piping is GRE.

The system is designed for 20 years life under the service conditions described above.

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