

Beyond Self-Erecting Flare Stack

The Beyond Flare Stack is designed to safely manage and flare high-volume gas returns from the wellbore during Managed Pressure Drilling (MPD) operations. The hydraulic self-erecting Flare Stack eliminates the need for a crane during normal rig-up and rig-down activities, reducing equipment requirements, setup time, and transportation costs. Dedicated pipe baskets transport heavy pipe effortlessly when high pressure lines require frequent mobilization. The advanced ignition system provides reliable flare operation and a flame arrestor with emergency bypass supports safe management of gas flow under varying operating conditions.

Applications

- Managed Pressure Drilling
- Returns Management Drilling

Features

- Hydraulic self-erecting Flare Stack eliminates the need for a crane during rig up
- Pilot monitoring and ignition system features power-fail and thermocouple fail-safe protection.
- Default bypass flame arrestor with heat blanket delivers an additional level of safety
- Fully automatic operation provides convenient pilot ignition and monitoring, with a manual mode available for testing and backup ignition
- Four removable pipe baskets reduce the need for additional transportation, and simplifies mobilization between well locations
- Nema 4X Control Panel enclosure provides protection for electrical controls in demanding operating environments
- ASME Section VIII, Division 1 certified
- Certified NACE MR-0175 / MR-0103 (ISO-15156 / ISO-17945)
- Piping fabricated in accordance with ASME B31.3



Specifications

General Data	
Maximum Working Pressure	862 kPa (125 psi)
Stack Height	12.2 m (40 ft)
Temperature Rating	-45 °C to 149 °C (-50 °F to 300 °F)
Gas Flow Rate	1000 KSCM/day (35.3 MMSCF/d)
Weight - Flare Stack on Skid	17,258 kg (38,048 lb.)
Dimensions when Standing (L x W x H)	12.3 m x 2.4 m x 13.8 m (40.2 ft x 8.1 ft. x 45.4 ft.)
Dimensions for Transport (L x W x H)	13.4 m x 2.4 m x 3.0 m (43.9 ft x 8.1 ft. x 9.9 ft.)
Pipe Inlet Size	305 mm (12 in.)
Flame Arrestor	A105/WPB Crimped Ribbon 12 CL150
Pilot Monitoring Ignition System	120 Volt ac, 1 Phase, 60 Hertz
Retractable Pilot	Propane Tornado Ignitor