

UTILITY FLARE



RUGGED UNASSISTED COMBUSTION FOR CLEAN-BURNING VENT STREAMS

CRA's Utility Flares burn waste gas as an open flame at the top of a vertical stack, with no blower, steam header, or auxiliary injection involved. An always-lit pilot maintains ignition through every flow condition, including low-flow and emergency relief events. Structure type, self-supported, guyed, or derrick, is selected based on stack height, site wind loading, and available footprint.

CRA's Utility Flares are engineered to API 537, API 521, EPA 40 CFR 60.18, and international flare regulations, built with rugged tips and durable structures under the same ISO 9001 quality system that governs every CRA skid.



CRA ADVANTAGE

+ Handles Wide Flow Ranges (steady vent streams and sudden emergency relief)	+ Optimal Design & Performance + Accomodate Special Requirements
+ Low Maintenance Requirements (durable construction, minimal moving parts)	+ On-Time Delivery + Responsive & Organized Team
+ Flexible Configurations (self-supported, guyed, or derrick-supported structures)	+ Stringent Quality Management + Fast Turnaround
+ Global Standards Compliance (API 537, API 521, EPA 40 CFR 60.18, international regulations)	+ Cost Effective Maintenance Packages + Long-Term CRA Support

APPLICATIONS

Supplied for unassisted combustion of vent gases and emergency relief streams that burn clean without auxiliary injection

- + Hydrocarbon Vent And Purge Gases
- + Emergency Relief And Upset Conditions
- + Low-BTU Gas Disposal
- + Low-Pressure Hydrocarbon Gases
- + Pipeline Blowdown Gas
- + Routine Vent And Purge Gases

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WORKING & PERFORMANCE



OPEN-FLAME COMBUSTION WITH NO BLOWER, STEAM, OR INJECTION HARDWARE

WORKING

- + The flare tip operates as an open flame at the top of a vertical stack, with no blower, steam header, or auxiliary injection
- + An always-lit pilot maintains ignition through all flow conditions, including low-flow and emergency relief events
- + Structure type is selected based on stack height, site wind loading, and available footprint
- + Self-supported structures suit heights under roughly 50 m; guyed structures extend to roughly 150 m; derrick structures suit taller or footprint-constrained sites^L

STRUCTURE OPTIONS

- + Self-Supported, Guyed, Or Derrick-Supported
- + No Blower Or Steam Infrastructure Required
- + Always-Lit Pilot Through All Flow Conditions
- + Standards: API 537, API 521
- + Best Fit For Self-Smokeless Streams

Utility flares are the simplest and most economical flaring option where the waste stream already burns clean unassisted, or where smokeless performance is not a regulatory requirement.

TYPICAL DESIGN & PERFORMANCE PARAMETERS

Assist type	Unassisted, open flame
Structure options	Self-supported, guyed, derrick-supported
Structure height guidance	Self-supported under ~50 m, guyed up to ~150 m, derrick above ~150-200 m ^L
Applicable standards	API 537, API 521; emissions per EPA 40 CFR 60.18
Duty type	Continuous or intermittent service

Figures per CRA published product data; items marked with a superscript L are drawn from published industry literature.

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