

**MODEL: G40A1168**

DUAL HP-LP  
AIR ASSISTED FLARE

FULLY OOOOb/c  
COMPLIANT

## Flare Stack

- 40' tall overall height
- Skid mounted
- Guy wire supported
- Carbon stack / Blasted / Painted

## Flare Tip

- High Pressure (HP) / Low Pressure (LP) tip design
- Air assist flare technology
- 304 stainless steel
- OOOOb/c compliant tip velocities

## Pilot Technology

- EZ Glide Pilot Retraction System
- 100% stainless steel construction
- High Energy Ignition (HEI)
- Propane and natural gas compatible

## Standard Controls

- Continuous pilot monitoring
- Automatic pilot relight
- MODBUS TCP / IP interface
- Intuitive controls and text display
- Local & remote pilot indication
- Optional pilot data logging

## Blower and VFD

- 7.5 HP Blower
- Dedicated VFD control panel
- Remote start / stop contacts
- 3 Phase TEFC Motor
- Backdraft prevention damper
- Blower skid mounted

## Required Site Utilities

Pilot Gas: Natural Gas: 55 SCFH @ 18 psig OR Propane : 25 SCFH @ 9 psig

Electrical: 480VAC 3 Phase

Instrument Air / Gas: Not required

## DESIGN SPECIFICATIONS

|   |       |         |
|---|-------|---------|
| Maximum <b>Low Pressure (LP)</b> Flow Rate: | 800   | MSCFD   |
| LP Net Heating Value (NHV):                 | 2,400 | BTU/SCF |
| LP Molecular Weight :                       | 44    | LBMOL   |

|  |       |         |
|--|-------|---------|
| Maximum <b>High Pressure (HP)</b> Flow Rate: | 10    | MMSCFD  |
| HP Net Heating Value (NHV):                  | 1,250 | BTU/SCF |
| HP Molecular Weight :                        | 22    | LBMOL   |

|                           |            |      |
|---------------------------|------------|------|
| Flare Technology:         | Air Assist |      |
| Blower Rating:            | 7.5        | HP   |
| Maximum Blower Flow Rate: | 1,350      | SCFM |

## RADIATION PERFORMANCE

|                                     |       |                          |
|-------------------------------------|-------|--------------------------|
| Wind Speed:                         | 20    | MPH                      |
| LP Maximum Radiation @ Grade Level: | 500   | MMBTU/HR-FT <sup>2</sup> |
| HP Maximum Radiation @ Grade Level: | 1,300 | MMBTU/HR-FT <sup>2</sup> |

## OOOOb/c COMPLIANCE

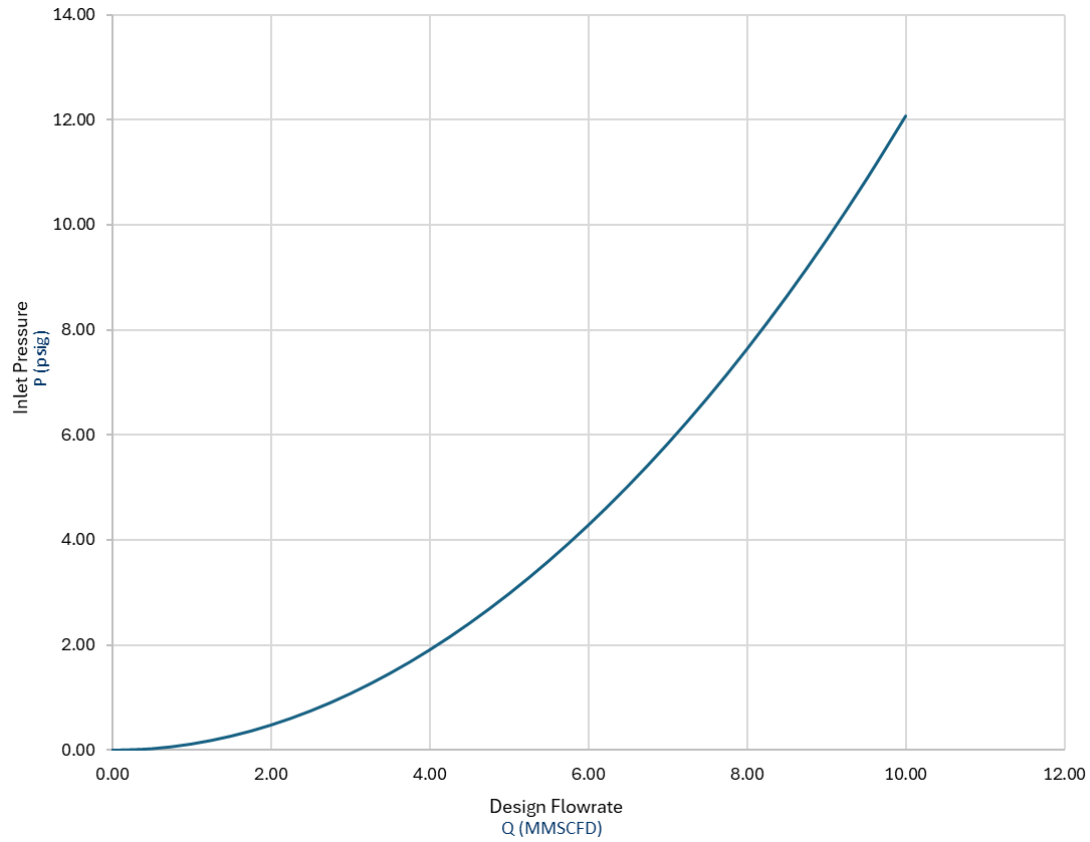
|  |              |        |
|--|--------------|--------|
| Guaranteed Destruction Efficiency (DRE):     | 95           | %      |
| Expected Destruction Efficiency (DRE):       | 98           | %      |
| Smokeless Capacity Per Method 22:            | 100          | %      |
| LP Maximum Smokeless Capacity Per Method 22: | 800          | MSCFD  |
| HP Maximum Smokeless Capacity Per Method 22: | 10           | MMSCFD |
| Minimum Design Flow Rates:                   | See Note 1   |        |
| Pilot:                                       | Continuous   |        |
| Pilot Monitoring:                            | Thermocouple |        |
| Remote Pilot Status:                         | Yes          |        |
| Pilot Datalogging:                           | Optional     |        |

## PERFORMANCE GUARANTEE NOTES

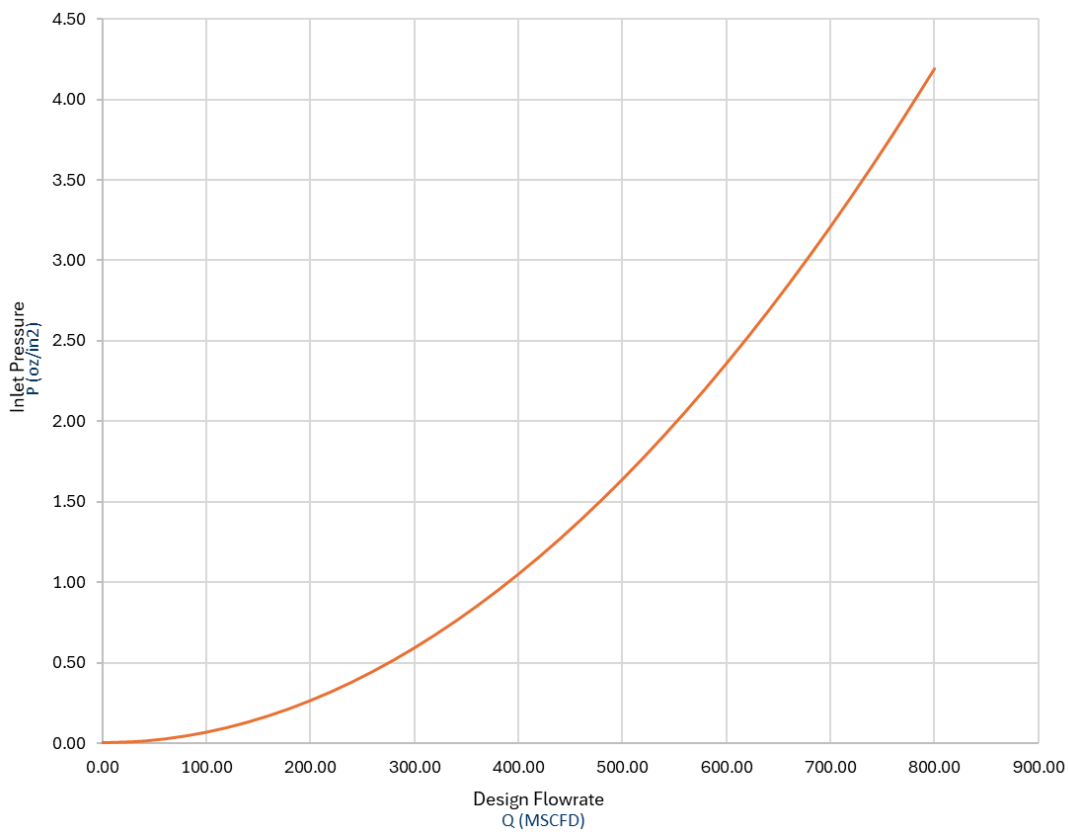
1. See attached waste gas flow versus blower flow curves for minimum flow rates to comply with OOOOb/c.
2. Designed in accordance with the velocity and NHV specifications defined in §60.5412b(a) for air assist flares.
3. As per the definitions of §63.641, this model is classified as a perimeter assist flare.



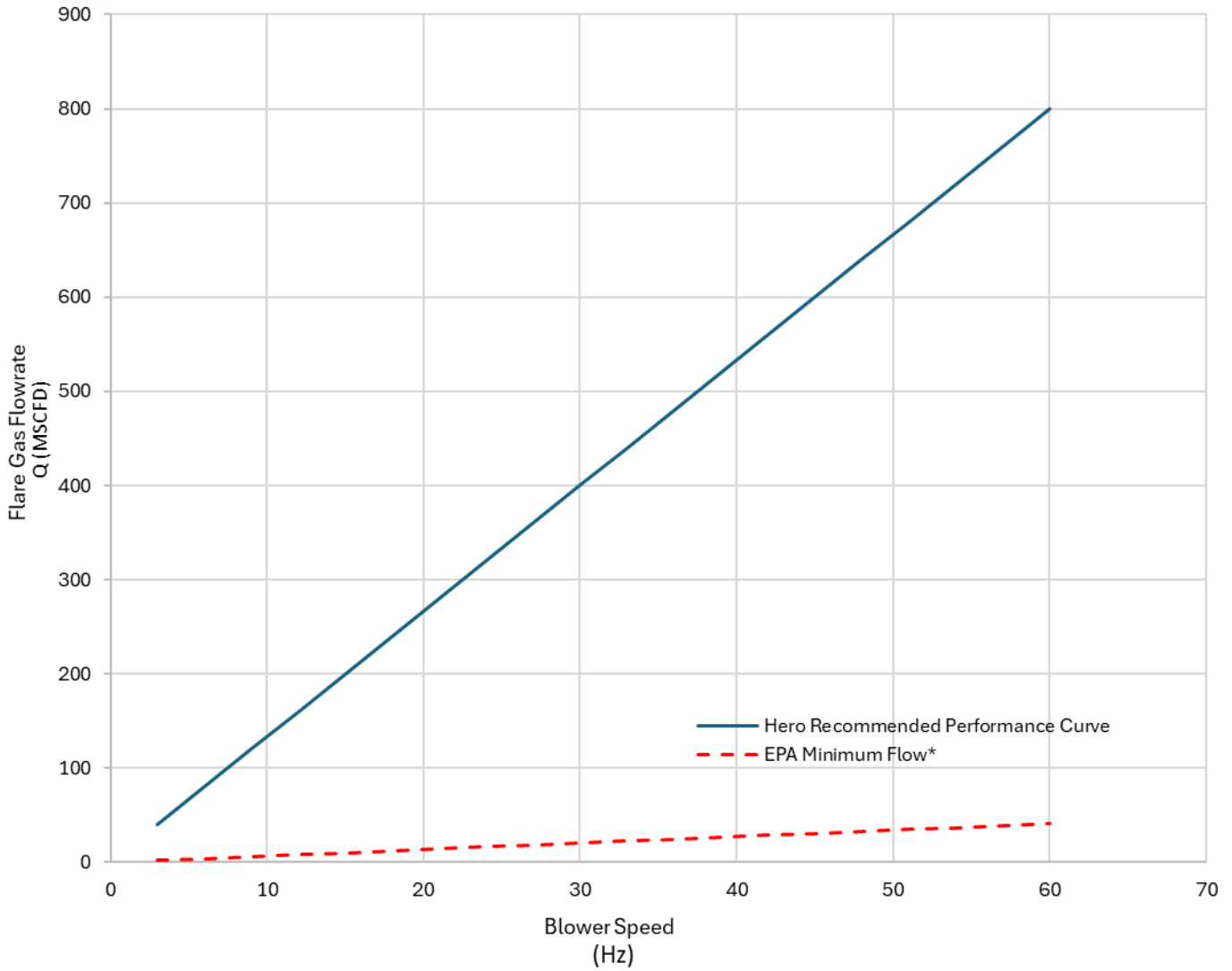
### Pressure vs Flow (HP)



### Pressure vs Flow (LP)



Curves above do not include flame arrestor.



\*EPA Minimum Flow Rate Calculated as per § 63.670 for NHVdil > 22 Btu/ft<sup>2</sup>