

MODEL: T40VT8

AIR ASSISTED FLARE

**FULLY OOOOb/c
COMPLIANT**

FLARE Model: T40VT8 - Specification Sheet



EPA Compliant Unit: Designed to meet or exceed EPA Standards

Flare Stack

- 40' tall overall height
- Single point lift
- 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

- 10 HP Blower
- Dedicated VFD control panel
- Remote start / stop contacts
- 3 Phase / 480 VAC / TEFC Motor
- Adjustable inlet damper
- Blower mounted on flare base

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 HP Flow Rate:	20	MMSCFD
VRT Lower Heating Value (LHV):	1,000	BTU/SCF
LP Molecular Weight :	20	LBMOL
Maximum LP Flow Rate:	2.5	MMSCFD
Tank Vapor Lower Heating Value (LHV):	2,400	BTU/SCF
HP Molecular Weight :	44	LBMOL
Flare Technology:	Air Assist	
Blower Rating:	10	HP
Maximum Blower Flow Rate:	9,250	SCFM

RADIATION PERFORMANCE

Wind Speed:	20	MPH
VRT or Tank Vapor Max. Radiation @ Grade Level:	750	MMBTU/HR-FT ²
VRT and Tank Vapor Max. Radiation @ Grade Level:	1200	MMBTU/HR-FT ²

OOOb/c COMPLIANCE

Guaranteed Destruction Efficiency (DRE):	95	%
Expected Destruction Efficiency (DRE):	98	%
Smokeless Capacity Per Method 22:	100	%
HP Max. Smokeless Capacity Per Method 22:	20*	MMSCFD
LP Max. Smokeless Capacity Per Method 22:	2.5*	MMSCFD
Minimum Design Flow Rates:	See Note 1	
Pilot:	Continuous	
Pilot Monitoring:	Thermocouple	
Remote Pilot Status:	Yes	
Pilot Datalogging:	Optional	

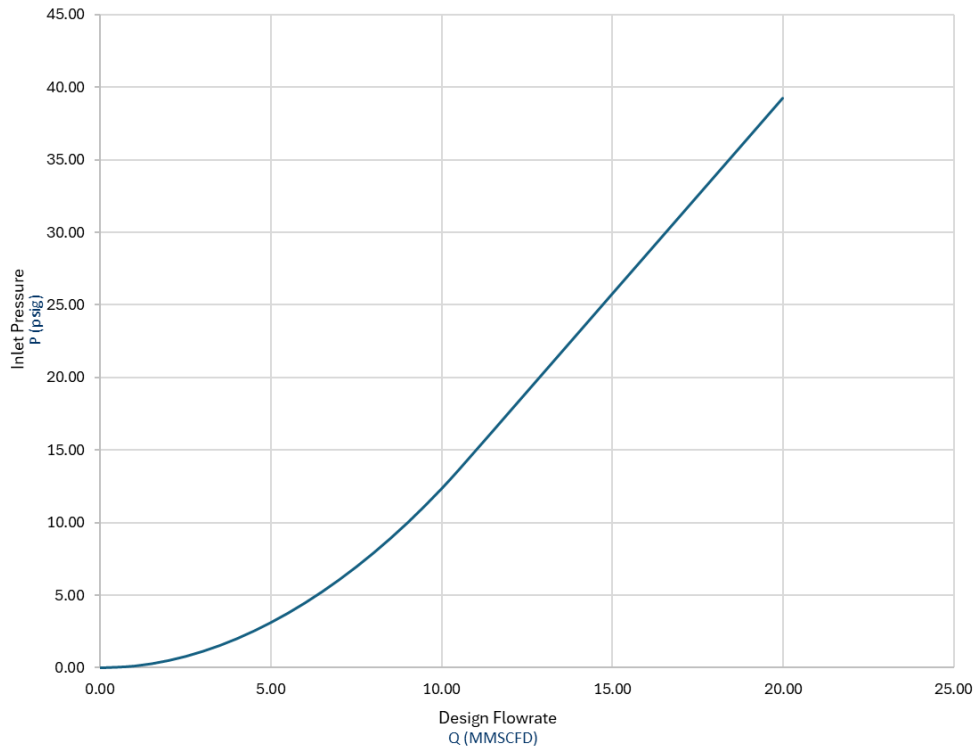


PERFORMANCE GUARANTEE NOTES

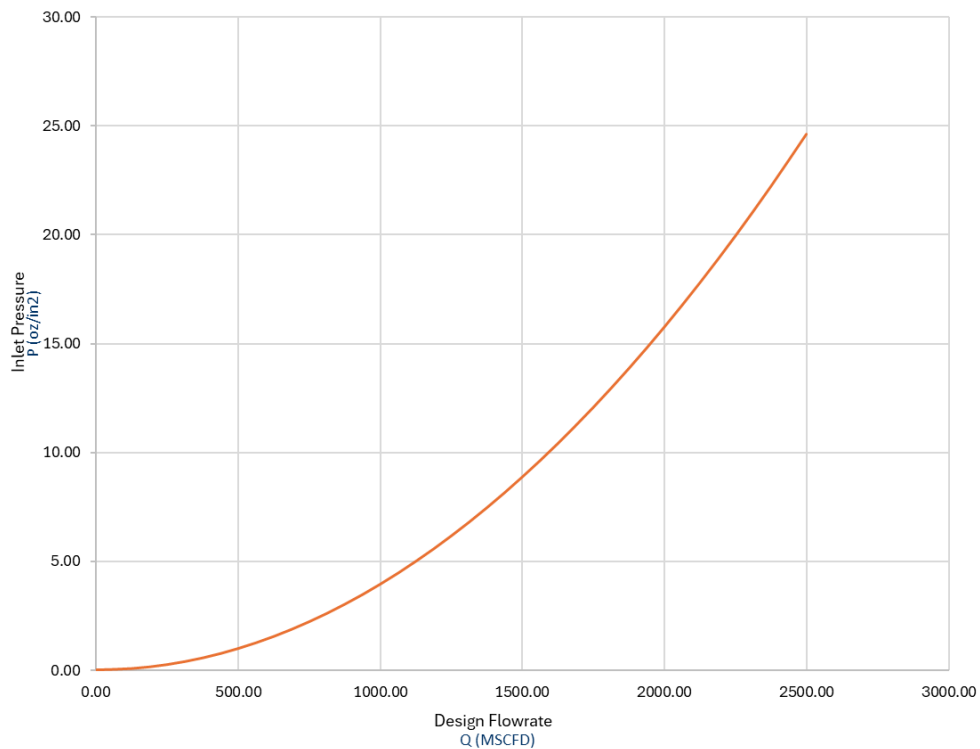
1. See attached waste gas flow versus blower flow curves for minimum flow rates to comply with OOOb/c.
2. Designed in accordance with the velocity and NHV specifications defined in §60.5412b(a) for air assist flares.
3. As per the definitions of §63.641, this model is classified as a perimeter assist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

*Smokeless rates are for individual flowrates and do not assume simultaneous LP/HP flaring.

HP Pressure Versus Flow

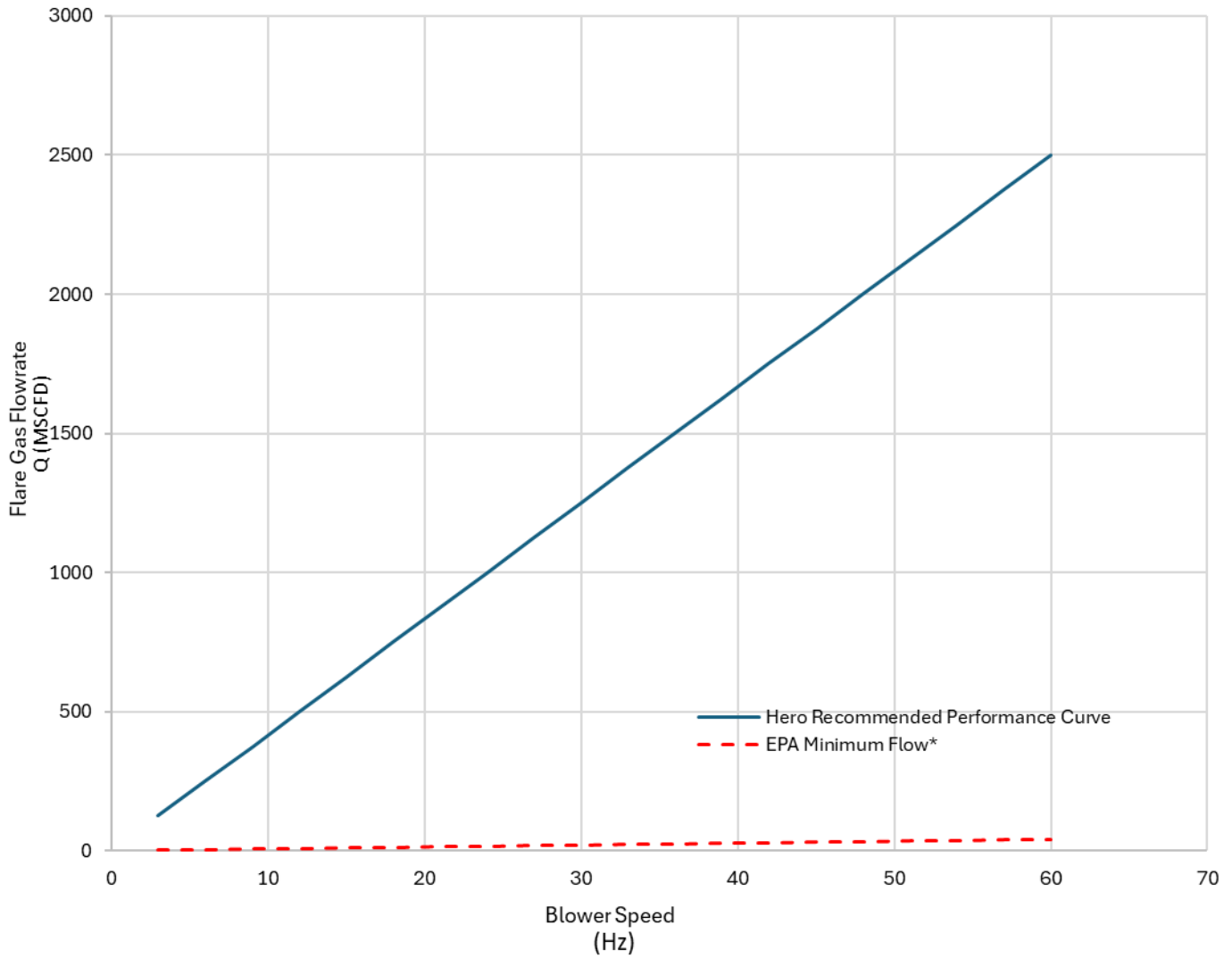


LP Pressure Versus Flow



Curve above does not include flame arrestor.

LP Flow Rate vs Blower for EPA NHVdil



*EPA Minimum Flow Rate Calculated as per § 63.670 for NHVdil > 22 Btu/ft²