

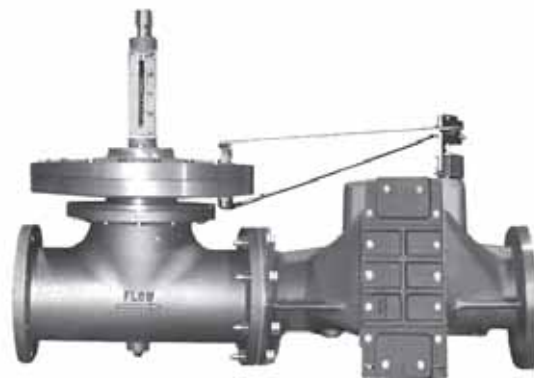
# Pressure Relief/Flame Trap Assembly 97161

The 97161 Pressure Relief and Flame Trap Assembly combines a back pressure regulator, a thermal operated valve and a horizontal flame arrester to maintain upstream pressure and effectively inhibit flame propagation in low pressure gas lines.

The back pressure regulator maintains a preset upstream pressure, the flame arrester effectively quenches internal flames, and the fusible element positively shuts off flow in emergency flame conditions. Standard materials of construction include an Aluminum Body and BUNA-N diaphragm. The large diameter diaphragm reduces line bounce for smoother gas flow.

The 97161 has simple spring loaded settings for easy field adjustment. The components are easy to access providing for simplified cleaning and maintenance.

It's aluminum and stainless steel components withstand severe process environments. The 97161 is especially designed for hydrogen sulfide and hot, wet



methane which are the main components of digester gas streams in for example, municipal waste water treatment facilities.

## Features and Benefits

- Internal Sense Tap (External Sense Tap Optional)
- Positive Emergency Shutoff
- Anaerobic digester gas train
- Fermentation off gas piping systems
- Low pressure vent lines
- Maintain Upstream Pressure
- 125°C Fusible Link
- Sizes 2" Through 12"
- Solenoid shutoff option for flare systems

## Pressure Relief/Flame Trap Assembly Setting Range

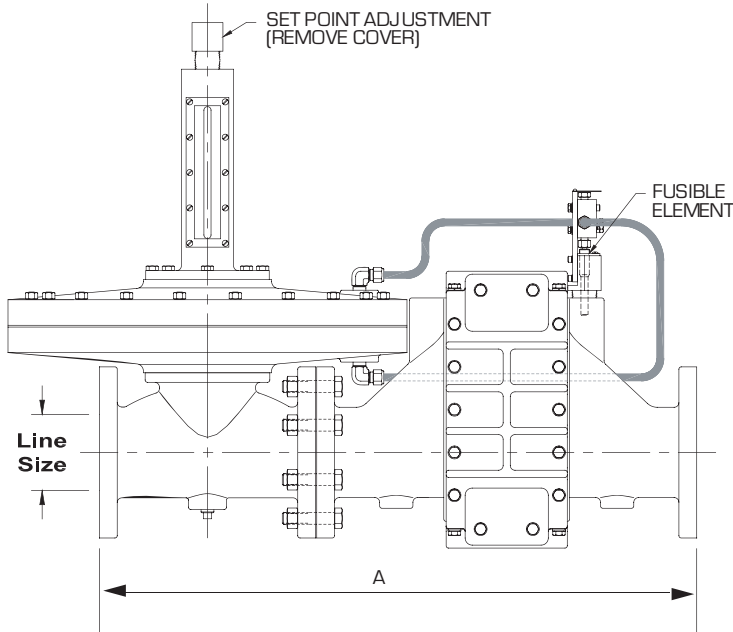
Model Numbers	Sizes Available	Connections	Air Flow Capacity
Model 97161	2", 3", 4", 6", 8", 10" and 12"	ANSI FF, ANSI RF DIN 2633 FF, DIN 2633 RF	31 to 7000 m <sup>3</sup> /h *

\* Air Flow Capacity depends on line pressure

## Materials of Construction

Housing, Bank Assembly Frame, and Element	Hardware Material
AL, AL, AL AL, 316 SS, AL AL, 316 SS, 316 SS	Zn plated steel (Std) Stainless Steel

# Pressure Relief/Flame Trap Assembly 97161



## DIMENSIONS

Line Diameter	A
2"	594 mm
3"	661 mm
4"	799 mm
6"	992 mm
8"	1383 mm
10"	1608 mm
12"	1711 mm

## Key to Pressure Relief/Flame Trap Assembly Model Number

97161	—	—	—	/	—
	□	□	□	□	□
	Connection Size (2" thru 12")	Connection Options	Setting and Configuration	Housing, Bank Assembly Frame and Element	Hardware Material
		1. ANSI FF 2. ANSI RF 3. DIN 2633 -FF 4. DIN 2633 -RF	1. Standard / Internal 2. Extended / Internal 3. Standard / External 4. Extended / External 5. Horizontal 6. Horizontal w/Drain 7. Horizontal w/Solenoid 8. Horizontal w/Drain & Solenoid	1. AL, AL, AL 2. AL, 316 SS, AL 3. AL, 316 SS, 316 SS	1. Zn. plated-steel (Std) 2. Stainless Steel

Example:

97161 — 8 — 1 3 2 / 1

Indicates a Pressure Relief/Flame Trap Assembly with 8" ANSI FF Flange. Standard / External Setting and Configuration. Aluminum Housing with SS Bank Assembly Frame, and an Aluminum Element. Hardware Material is made of Zn. plated steel. Certified dimensions and specifications available upon request.