

## OVERVIEW

The GROTH BIOGAS Model 8391 Waste Gas Burner includes an ignition system with industry leading features. The burner wind shield contains the unique "downdraft prevention" with a bevel design which virtually eliminates the possibility of the flame being blown out. The design also provides the proper air/fuel mixture to ensure an efficient burn. The wind shield will deflect outside winds, up to 150 MPH, and operates efficiently in heavy rains preventing smoke and odors from permeating the surrounding area.

## TECHNICAL DETAILS

- Size: 2" (DN 50) through 12" (DN 300)
- Material: All stainless-steel construction in flame area
- Enclosure: NEMA 4, Weatherproof
- Pressure Switch
- Explosion Proof: 4 - 20 INWC
- Range: 0.4 - 0.6 INWC Deadband
- Pilot Fuel
- Natural Gas — 4 INWC to 276 INWC Supply Pressure
- Propane Gas — 28 INWC to 276 INWC Supply Pressure
- Digester Gas 4 INWC to 18 INWC Supply Pressure
- Pilot Consumption: 22-150 SCFH
- Electrical
- 115V, 1PH, 60 Hz, 10 AMP, grounded neutral Contacts for remote monitoring
- (1) NO, 3 AMP, "Flame On"
- (1) NO, 3 AMP, "Flame Failure"

## FEATURES

- Automatic ignition and re-ignition  
Stoichiometric pilot on all burners
- Efficient combustion with biogas BTU value as low as 400/cu. ft.
- Reliable "downdraft prevention" for wind protection
- Flame retention vortex vanes vastly improve burning efficiency
- Pilot system operates as low as 4 INWC (standard components)
- Safely incinerates waste gases preventing fugitive VOC emissions
- Reliable pilot gas ignition system ensures that the waste gas is properly incinerated
- Quick, easy maintenance

## OPTIONS

- Optional Enclosure: NEMA 4X, NEMA 7





SALES AND DATA SHEET  
**Waste Gas Burner**  
**MODEL #8391**

SLSDS-8391  
 REV. 0  
 DATE 12/13/2023

**SPECIFICATIONS**

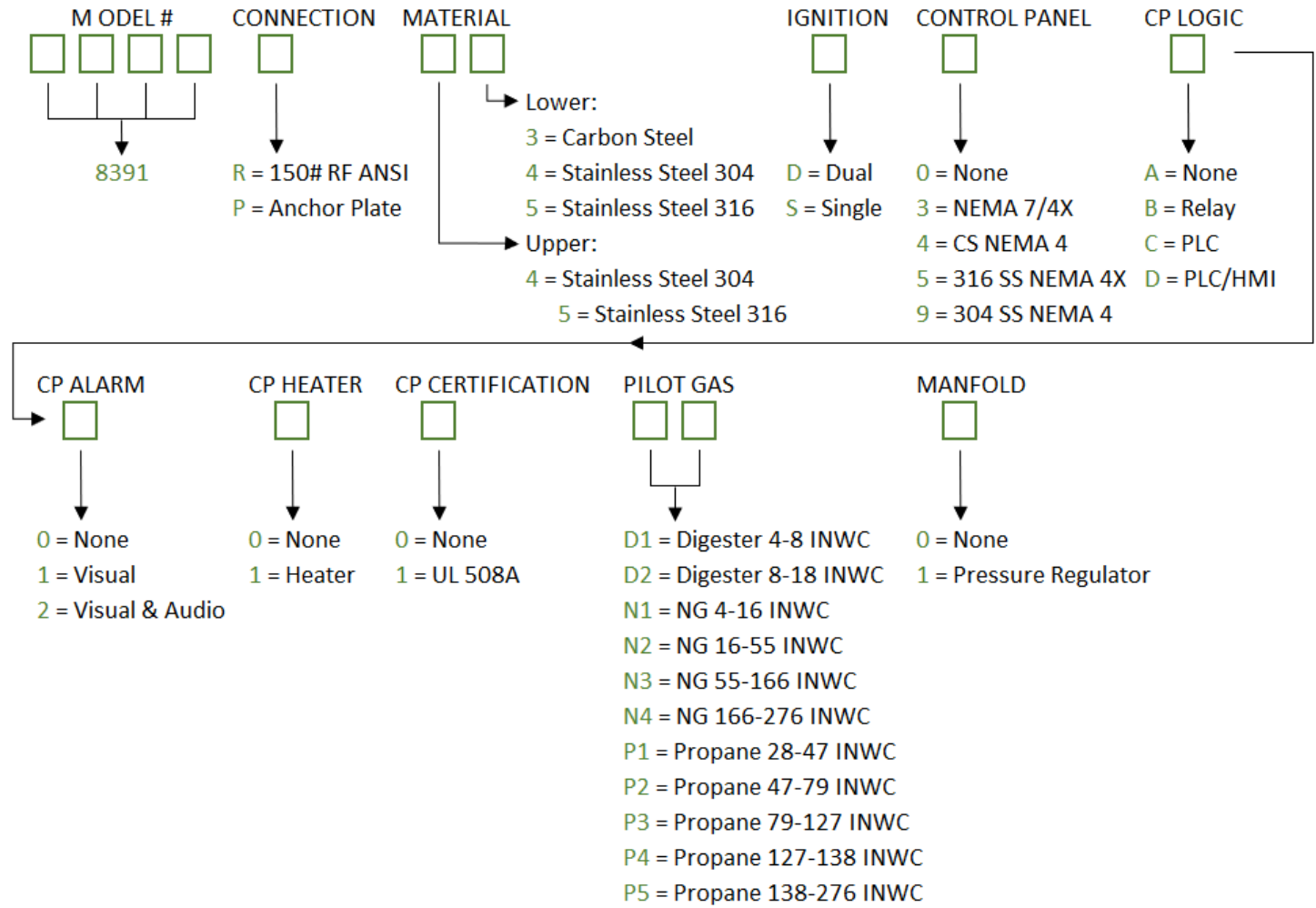
Size Inches (mm)	Flow Rate SCFM SG =0.8 DP = .50 INWC Temp = 60°F (NM <sub>3</sub> /H)	Minimum Recommended Height above Grade Feet(M)	Minimum Safe Distance to Control Panel Inch (mm)	Diameter of Shield Inch (mm)	Assembly Weight LBS (KG)
2 (50)	4,040 (114)	10 (3.0)	8 (2.4)	18 (457)	176 (80)
3 (80)	9,090 (257)	12 (3.7)	10 (3.0)	18 (457)	212 (97)
4 (100)	16,200 (459)	12 (3.7)	15 (4.6)	24 (610)	272 (124)
6 (150)	36,400 (1031)	12 (3.7)	22 (6.7)	24 (610)	363 (165)
8 (200)	64,600 (1829)	16 (4.9)	28 (8.5)	30 (762)	512 (233)
10 (250)	100,930 (2858)	20 (6.1)	36 (11.0)	36 (914)	572 (260)
12 (300)	144,600 (4095)	25 (7.6)	42 (12.8)	36 (914)	619 (282)



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**HOW TO ORDER**



Notes:

- Include model number when ordering