



Specification Sheet
Models VH0100 – VH0200
(Version 2.0)

Model Specifications

Model Parameter		VH0100		VH0150		VH0200	
Maximum Input, BTU/hr		1,000,000		1,500,000		2,000,000	
Minimum Input, BTU/hr (On-ratio)		100,000		150,000		200,000	
Minimum Input, BTU/hr (Fixed Air)		20,000		30,000		40,000	
Combustor Type High-velocity (HV), Medium-velocity (MV)		HV	MV	HV	MV	HV	MV
Inlet Fuel Pressure, "w.c.	Natural Gas	12.5	5.5	14.5	7.0	9.3	7.1
	Propane	15.0	8.0	11.0	8.0	13.0	11.0
Inlet Air Pressure, "w.c. 10% excess air at maximum input	Natural Gas	17.4	9.5	21.0	11.4	15.0	12.2
	Propane	17.9	8.4	16.8	7.2	20.7	15.9
High fire Visible Flame Length, inches Measured from the outlet end of the combustor	Natural Gas	33	38	38	43	34	38
	Propane	34	37	42	44	36	38
Approximate Flame Velocity, ft/s Approximately 10% excess air at maximum output		600	300	650	340	480	320
Maximum Operating Temperature, °F	Alloy combustor	1,750					
	Ceramic combustor	2,500					
	Refractory combustor	2,800					
Maximum Combustion Air Temperature, °F For higher temperatures contact Algas-SDI		300					
Flame Detection	Flame Rod	For operating temperatures up to 2,200°F All air/fuel inlet orientations ¹					
	UV Scanner	½" or ¾" NPT adapters					
Fuels For any other mixed gas, contact Algas-SDI		Natural gas or Propane					
Burner Weight, lbs	Alloy combustor	47					
	Ceramic combustor	48					
	Refractory combustor	109					

¹ Flame rod for VH0200 not available with inline fuel and air inlet orientation.

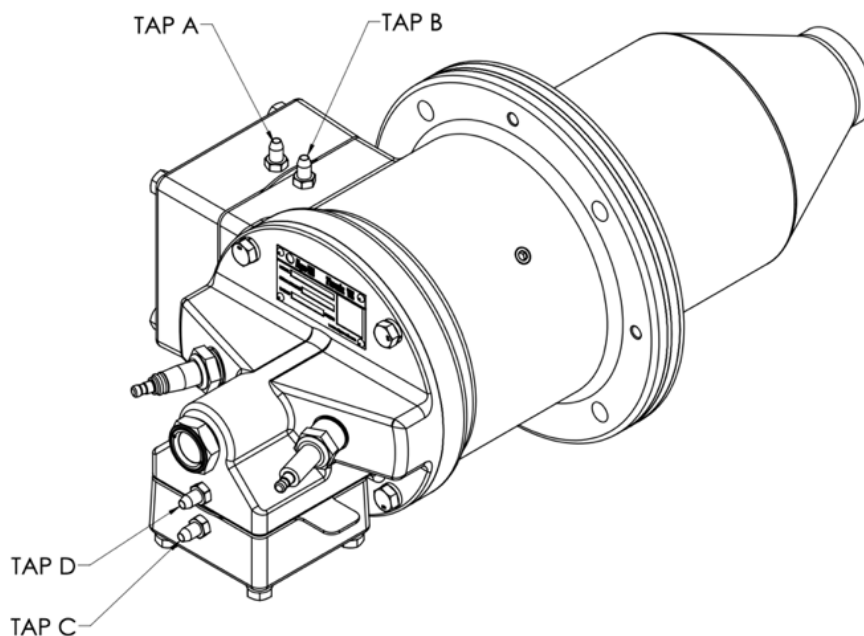
- All information is based on laboratory testing in neutral (0" w.c.) pressure chamber.
- Different chamber conditions may affect the data.
- All inputs based upon standard conditions; 1 atmosphere, 70°F, and higher heating values (HHV).
- For applications other than standard conditions, contact Algas-SDI.
- Algas-SDI reserves the right to change the design and/or configuration of Algas-SDI products.

Setup Specifications
@ ΔP Across Orifice vs. Input (On-ratio operation)

					Input BTU/hr		
VH0100	ΔP Across Orifice ("w.c. $\pm$ 5%)	Natural Gas	Taps	Orifice Size (mm)	500,000	750,000	1,000,000
		Propane	C-D	13.0	1.0	2.2	4.2
		Air	A-B	57.0	1.5	3.2	6.4
					750,000	1,125,000	1,500,000
VH0150	ΔP Across Orifice ("w.c. $\pm$ 5%)	Natural Gas	C-D	20.0	1.0	2.6	4.2
		Propane	C-D	18.0	0.75	1.5	2.6
		Air	A-B	66.0	1.5	3.2	6.6
					1,000,000	1,500,000	2,000,000
VH0200	ΔP Across Orifice ("w.c. $\pm$ 5%)	Natural Gas	C-D	24.0	1.0	2.4	4.2
		Propane	C-D	18.0	1.3	2.6	4.4
		Air	A-B	70.0	1.6	3.6	6.0

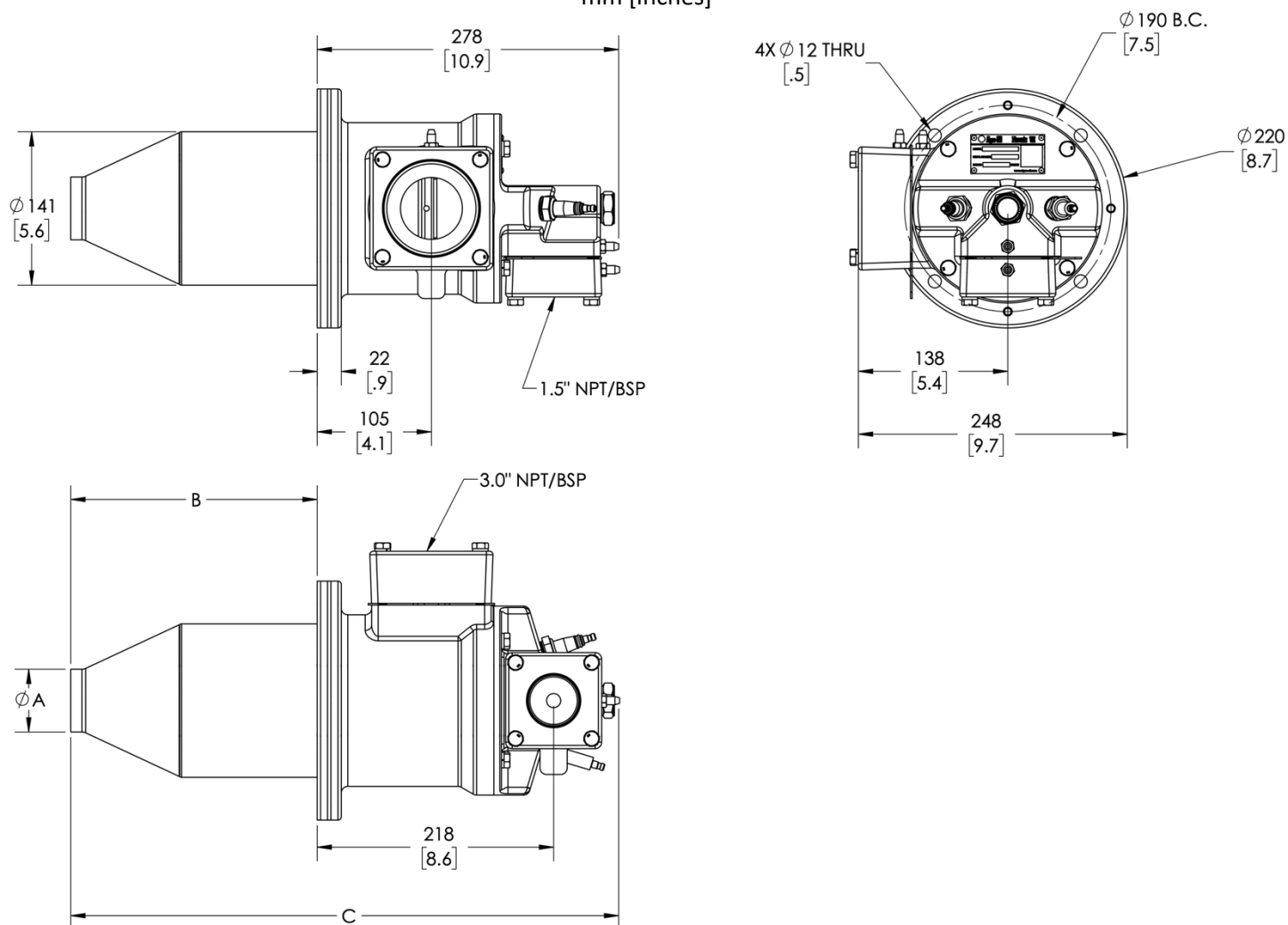
- Plumbing of air and gas will affect accuracy of orifice readings.
- Information is based on acceptable/industry-established air and gas piping practices.

Pressure Tap Locations



Product Dimensions – Alloy Combustor

mm [inches]

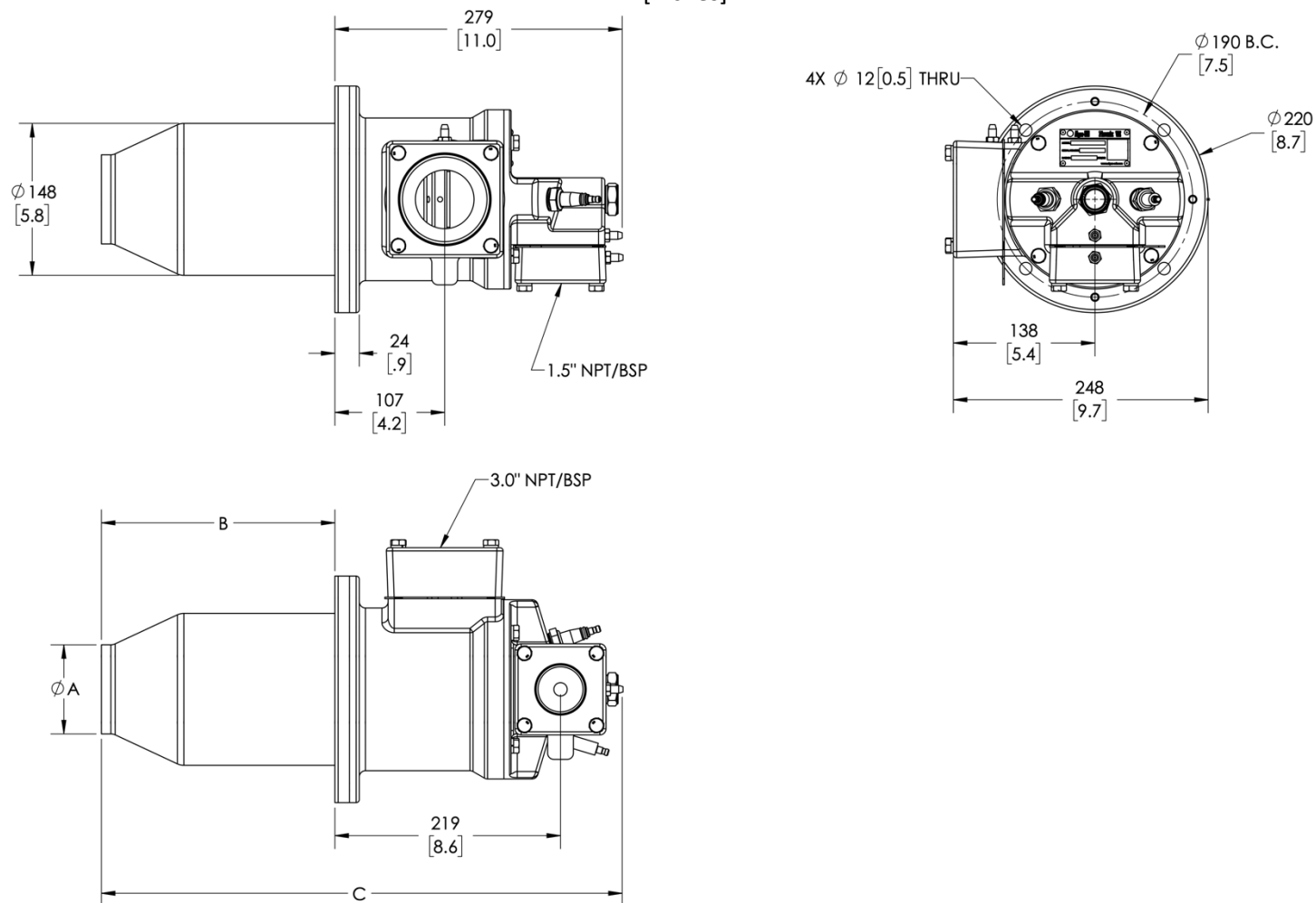


Model	Combustor outlet diameter* ("A")		Combustor length ("B")	Burner length ("C")
	High Velocity	Medium Velocity		
VH0100	$\phi 54.0$ [2.1]	$\phi 76.5$ [3.0]	227 [8.9]	504 [19.8]
VH0150	$\phi 63.5$ [2.5]	$\phi 89.0$ [3.5]	227 [8.9]	504 [19.8]
VH0200	$\phi 85.0$ [3.4]	$\phi 105.0$ [4.1]	257 [10.12]	534 [21.0]

* Inside dimension of the combustor outlet.

Product Dimensions – Ceramic Combustor

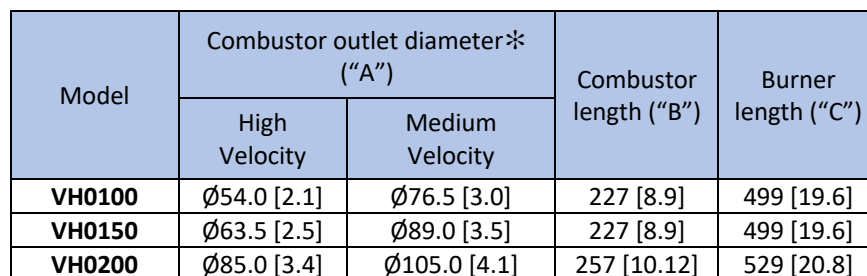
mm [inches]



Model	Combustor outlet diameter* ("A")		Combustor length ("B")	Burner length ("C")
	High Velocity	Medium Velocity		
VH0100	$\phi 54.0$ [2.1]	$\phi 76.5$ [3.0]	227 [8.9]	506 [19.9]
VH0150	$\phi 63.5$ [2.5]	$\phi 89.0$ [3.5]	227 [8.9]	506 [19.9]
VH0200	$\phi 85.0$ [3.4]	$\phi 105.0$ [4.1]	257 [10.12]	536 [21.1]

* Inside dimension of the combustor outlet

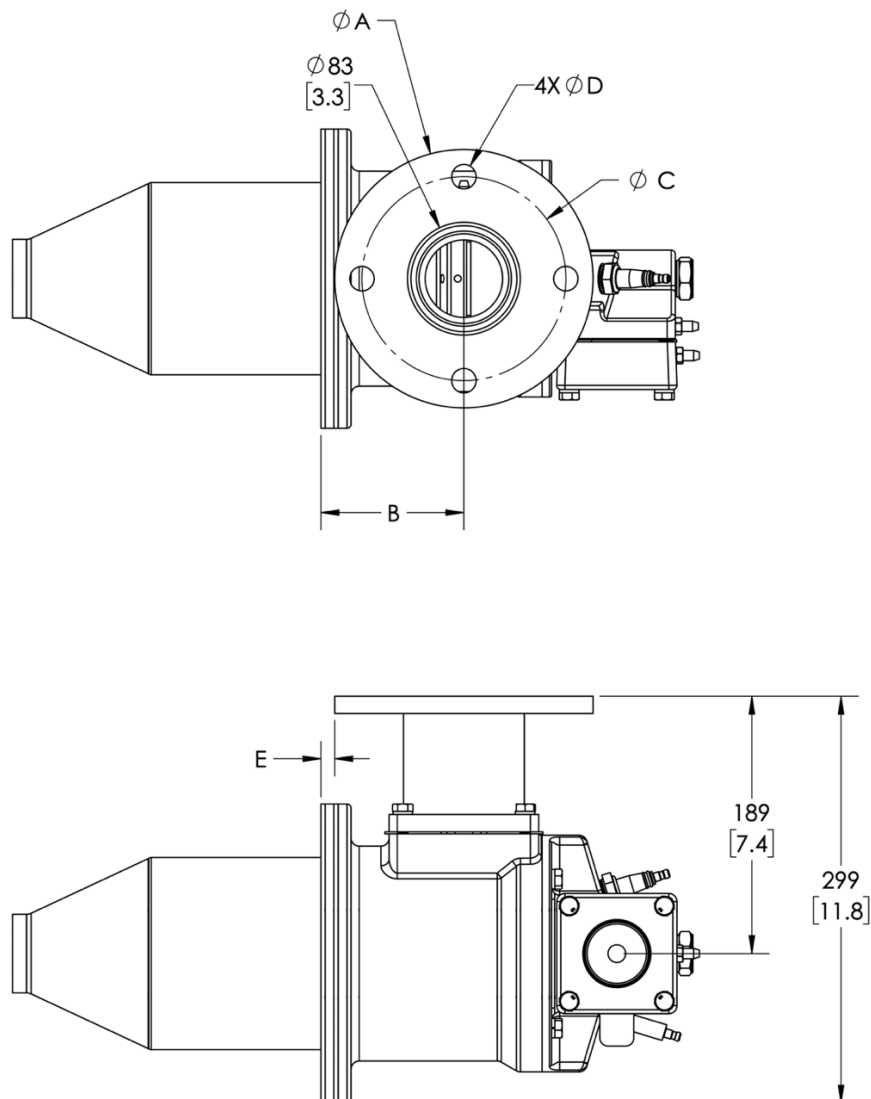
mm [inches]



Algas SDI Making Fuel Gases Easier to Use
NG | LPG | SNG | CNG | RNG

Product Dimensions – ANSI 3"/DIN 80 Inlet Flange Adapters

mm [inches]



Combustor Type	Flange Diameter ("A")		Wall to Flange Center ("B")	Bolt Circle ("C")		Bolt Hole Diameter ("D")		Wall Clearance ("E")
	ANSI 3"	DIN 80		ANSI 3"	DIN 80	ANSI 3"	DIN 80	
Alloy			105[4.1]					10[.4]
Ceramic	190[7.5]	190[7.5]	107[4.2]	Ø152[6]	Ø150[5.91]	Ø19[.75]	Ø18[.7]	12[.5]
Refractory			102[4]					7[.3]

* Flanges pressure rated to PN6/125 lbs. classification

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