



BBG

Gas Beta Burner

BBG-1
Edition 02-08



Hauck, a product brand
of the Elster Group



BBG shown with pilot ignition and converging tile options.

- Designed for low pressure air operation
- Rugged heavy gauge steel construction
- Alloy or refractory tile options allow burner to be tailored to application requirements
- Direct spark or pilot ignition option
- UV flame supervision
- Preheated air up to 900°F (480°C)
- Packaged versions available with air and fuel manifolds
- Broad range of air/fuel ratios



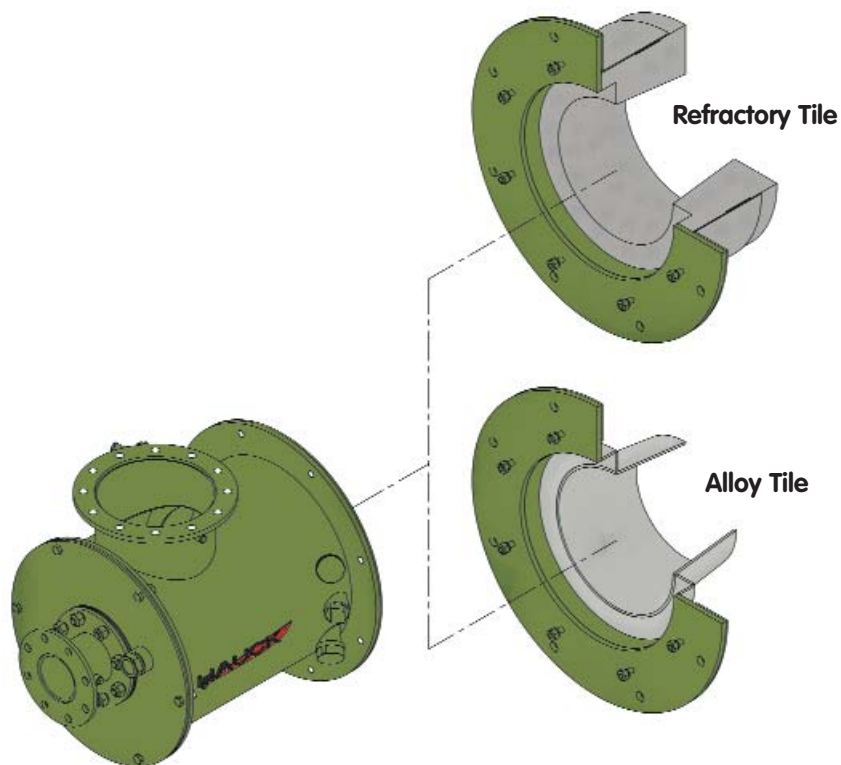
Hauck's BBG Gas Beta Burner is designed for exceptionally long life in continuous or intermittent operation in furnace, kiln and dryer environments. Its low pressure air operation make it ideal for a wide range of applications including steel reheat furnaces, rotary kilns, gypsum kettles, air heaters and incinerators. The BBG is well suited for applications operating under backpressure. Burner capacities range from 2.2 million to more than 87 million Btu/hr (645 to 25,000 kW). Preheated air versions are available up to 900°F (480°C). The burner is designed to operate on any clean industrial fuel gas with a higher heating value of 500 Btu/scf (19.7 MJ/nm³) or greater with ambient or preheated combustion air.

Available with converging alloy tile for ambient combustion air and process temperatures up to 1800°F (980°C), and converging or diverging refractory tiles for process temperatures up to 2800°F (1540°C). With refractory tile, the 1000 and 2000 series can operate with air preheat temperatures up to 600°F (315°C), and the 3000 series can operate with air preheat temperatures up to 900°F (480°C).

On ratio turndown is approximately 8:1 with higher thermal turndown possible with excess air firing. Nominal burner air supply pressure is 8 osig (3450 Pa). Nominal gas supply pressure is 4 osig (1725 Pa).

Hauck recommends the use of a self-supporting refractory or alloy tile for soft and hardwall applications. An optional mandrel for field pouring of a burner port can be supplied. Consult Hauck for mounting options.

Direct spark ignition is available on the BBG_204 through _212 burners, while gas pilot ignition is available on all size burners. The BBG burner utilizes UV flame supervision.



BBG Burner with Tile Options

For additional information on this product, visit our website at:

www.hauckburner.com

Hauck Manufacturing Company
POB 90
Lebanon, PA 17042

T +1 717-272-3051
F +1 717-273-9882
info@hauckburner.com

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of the Elster Group



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CAPACITIES

BBG BETA BURNER GAS SERIES NATURAL GAS OPERATION

SPECIFICATIONS		MODEL NUMBER							
		_ _04	_ _06	_ _08	_ _10	_ _12	_114	_118	_124
H I G H F I R E	Max. Input @ 10% Excess Air (MMBtu/hr)	2.7	6.0	10.8	16.7	24.2	33.1	54.5	106
	Max. Air Flow @ 12 osig (scfh)	27,900	62,200	112,000	173,000	251,000	343,000	565,000	1,110,000
	Max. Excess Air (%)	300	250	400	275	320	400	650	600
	Flame Length @ Max. Input (ft.)	5.5	5.8	9.0	13.0	14.0	15.0	18.0	25.0
L O W F I R E	Max. Input @ 10% Excess Air (MMBtu/hr)	0.32	0.69	1.3	2.0	2.9	3.9	6.5	12.7
	Air Flow @ 0.17 osig (scfh)	3,320	7,140	13,300	20,600	29,900	40,800	67,200	132,000
	Max. Excess Air (%)	100	80	240	100	120	150	280	100

NOTES:

- Capacities based on natural gas with HHV of 1034 Btu/ft³, 0.59 S.G., and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure.
- Air and gas flows based on 60°F @ sea level.
- Static air pressures measured at the burner air inlet pressure tap.
- Flame lengths measured from the end of converging tile; for a diverging tile (available for _ _06 through _118), add 18% to the flame length.
- To determine flame lengths at different excess air values, use the following equation:

$$\text{New Flame Length} = \frac{\text{Flame Length @ 10\% XSA}}{\left[1 + \left(\frac{\% \text{XSA} - 10}{100} \right) \right]}$$

- All data based on industry standard air and gas piping practices.
- Burners can be operated up to a static air pressure of 12 osig; consult Hauck.

(Metric Capacities on Reverse Side.)

In accordance with Hauck's commitment to Total Quality Improvement, Hauck reserves the right to change the specifications of products without prior notice.

HAUCK MANUFACTURING CO., P.O. Box 90 Lebanon, PA 17042-0090 717-272-3051

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www.hauckburner.com

Fax: 717-273-9882

BBG-2

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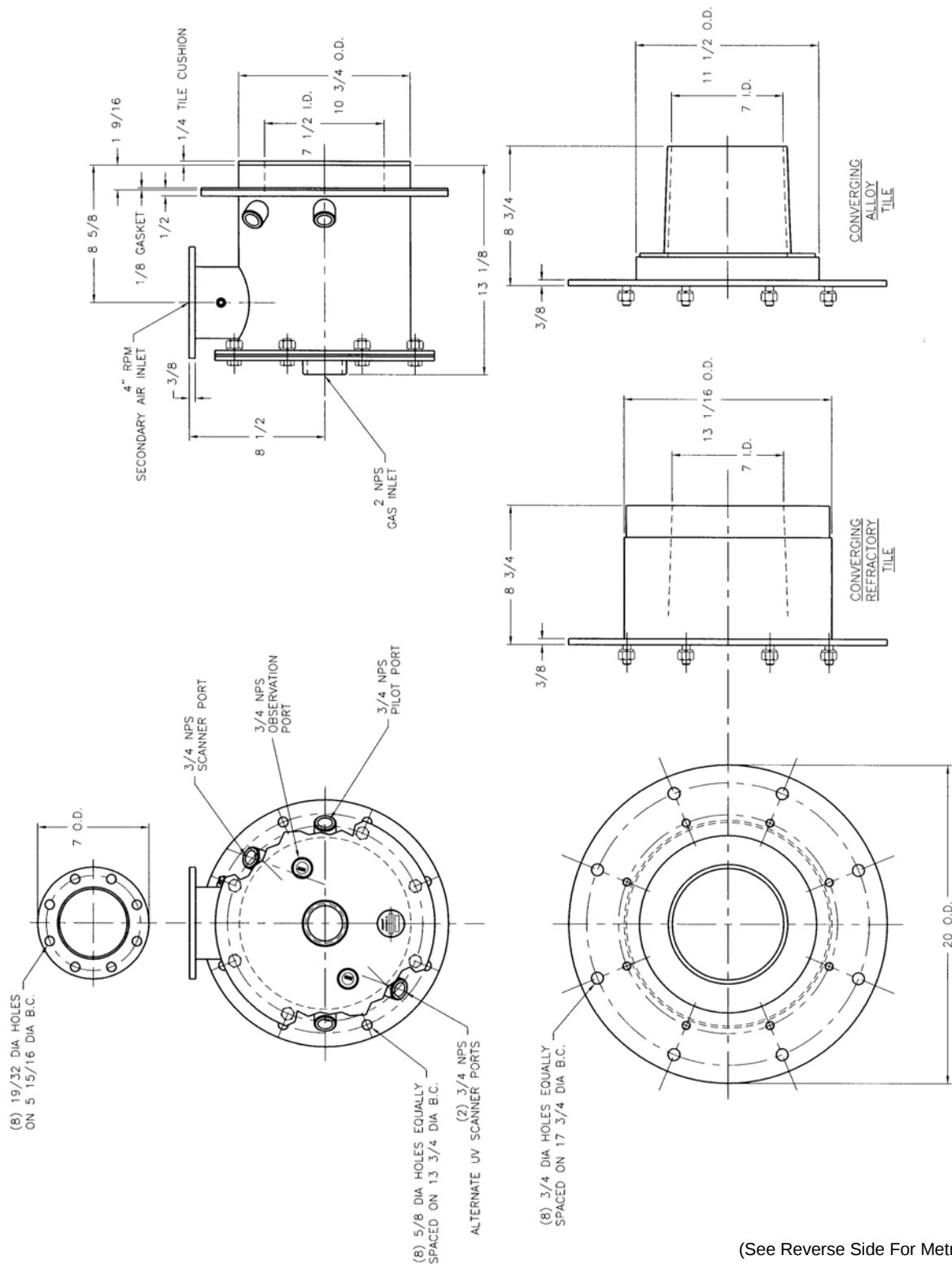
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DIMENSIONS

BBG BETA BURNER – PILOT IGNITION

BBG_104

X6905
(NOT TO SCALE)

NOTES:

1. DIMENSIONS ARE IN INCHES.
2. PILOT AND SCANNER MUST BE LOCATED ON SAME SIDE OF BURNER AND ABOVE HORIZONTAL CENTER LINE OF BURNER.

(See Reverse Side For Metric Dimensions)

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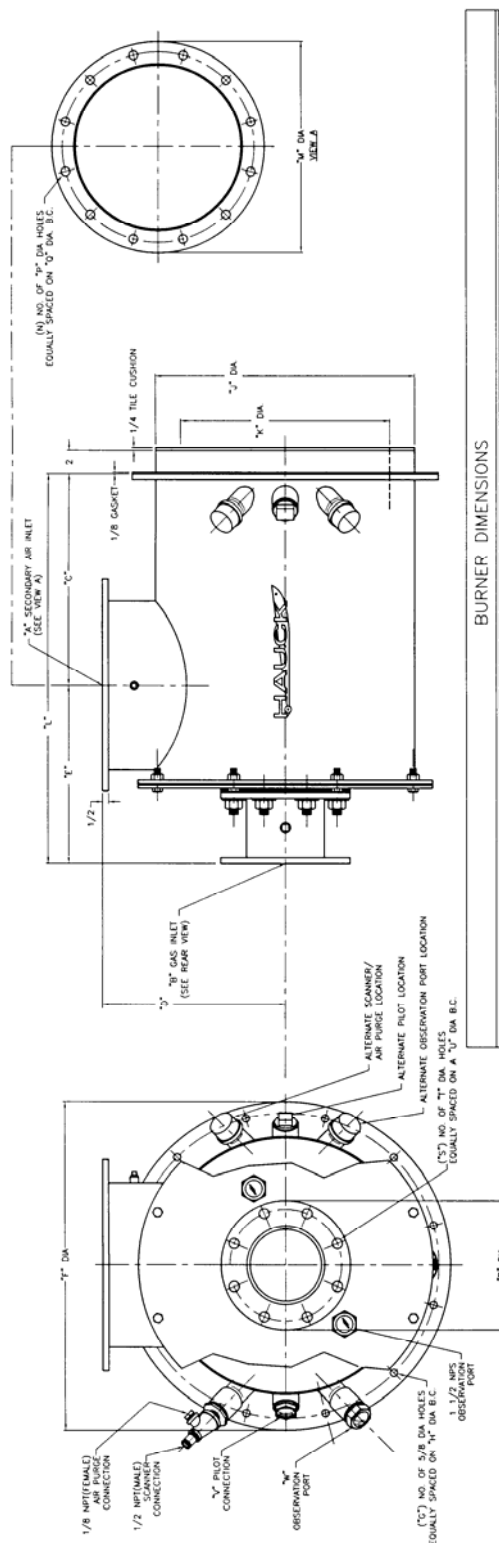
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BBG-3

DIMENSIONS

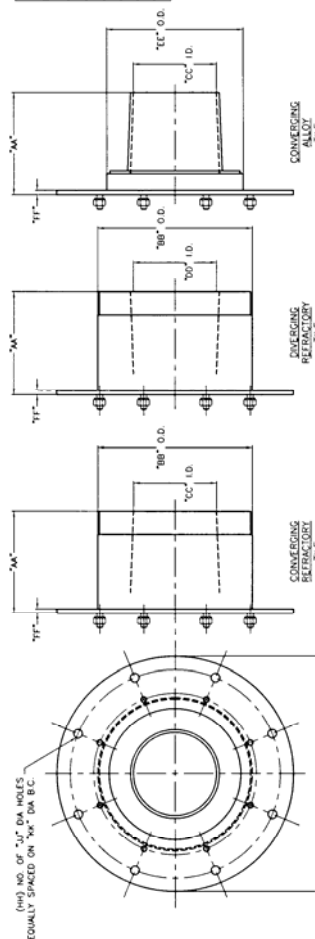
BBG BETA BURNER – PILOT IGNITION

BBG 106 THROUGH 118



BURNER DIMENSIONS																						
MODEL NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	
6 RPM -105	3 ANG	12-1/2	12-1/2	12-3/8	11-5/32	22	8	20	16	9-13/16	23-21/32	9	8	19/32	7-1/2	4	3/4	6	1-1/4 NPS	3/4 NPS		
8 RPM -108	3 ANG	12-1/2	12-3/8	11-5/32	22	8	20	16	9-13/16	23-21/32	11	8	9/16	-0	7-1/2	4	3/4	6	1-1/4 NPS	3/4 NPS		
-110	10 RPM	4 ANG	15	13-1/2	12-1/8	24	8	22	18	13-3/4	27-1/8	14	12	3/4	12-1/4	9	8	3/4	7-1/2	1-1/2 NPS	1-1/2 NPS	
-112	10 RPM	4 ANG	17	14-1/2	13	26	8	24	20	15-3/4	30	16	12	3/4	14-1/4	9	8	3/4	7-1/2	1-1/2 NPS	1-1/2 NPS	
-114	14 RPM	6 ANG	18	15-1/2	15-1/8	28	12	26	22	17-3/4	33-1/8	18	12	3/4	16-1/4	11	8	7/8	9-1/2	1-1/2 NPS	1-1/2 NPS	
-116	14 RPM	6 ANG	20	17-1/2	17	32	12	30	26	21-3/4	37	23-1/4	16	3/4	21-1/4	11	8	7/8	9-1/2	1-1/2 NPS	1-1/2 NPS	
-118	18 RPM	6 ANG	20	17-1/2	17	32	12	30	26	21-3/4	37	23-1/4	16	3/4	21-1/4	11	8	7/8	9-1/2	1-1/2 NPS	1-1/2 NPS	

MODEL NO.	AA	BB	CC	DD	EE	FF	GG	HH	IJ	KK
-106	8-3/4	18-5/16	7-13/16	10-1/2	16-7/8	1/2	28	8	7/8	25
-108	8-3/4	18-5/16	7-13/16	10-1/2	16-7/8	1/2	28	8	7/8	25
-110	10-5/8	22-5/16	11-3/4	14-5/8	18-7/8	1/2	30	8	7/8	27
-112	12-1/2	24-5/16	13-3/4	16-3/4	20-7/8	1/2	32	12	7/8	29
-114	14-7/8	26-5/16	15-3/4	19-1/8	22-7/8	1/2	34	12	7/8	31
-118	18-7/8	30-5/16	18-3/4	22-1/2	26-7/8	1/2	38	12	7/8	35



Y6871
(NOT TO SCALE)

- NOTES:
1. DIMENSIONS ARE IN INCHES.
 2. PILOT AND SCANNER MUST BE LOCATED ON SAME SIDE OF BURNER AND ABOVE HORIZONTAL CENTER LINE OF BURNER.

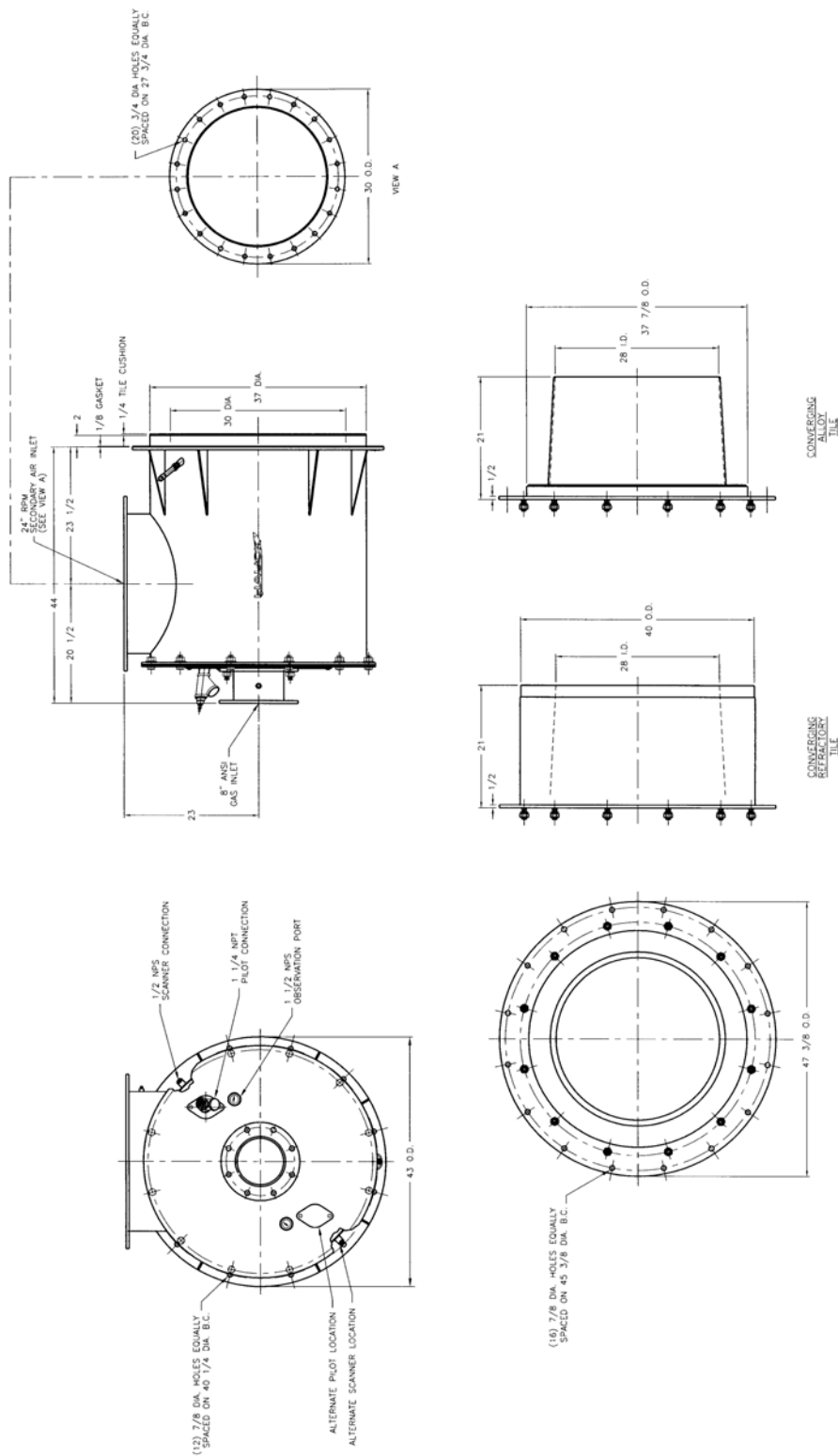
(See Reverse Side For Metric Dimensions)

In accordance with Hauck's commitment to Total Quality Improvement, Hauck reserves the right to change the specifications of products without prior notice.



DIMENSIONS

BBG BETA BURNER – PILOT IGNITION



Y6872
(NOT TO SCALE)

NOTES:

- 1 DIMENSIONS ARE IN INCHES
- 2 PILOT AND SCANNER MUST BE LOCATED ON SAME SIDE OF BURNER AND ABOVE HORIZONTAL CENTER LINE OF BURNER.

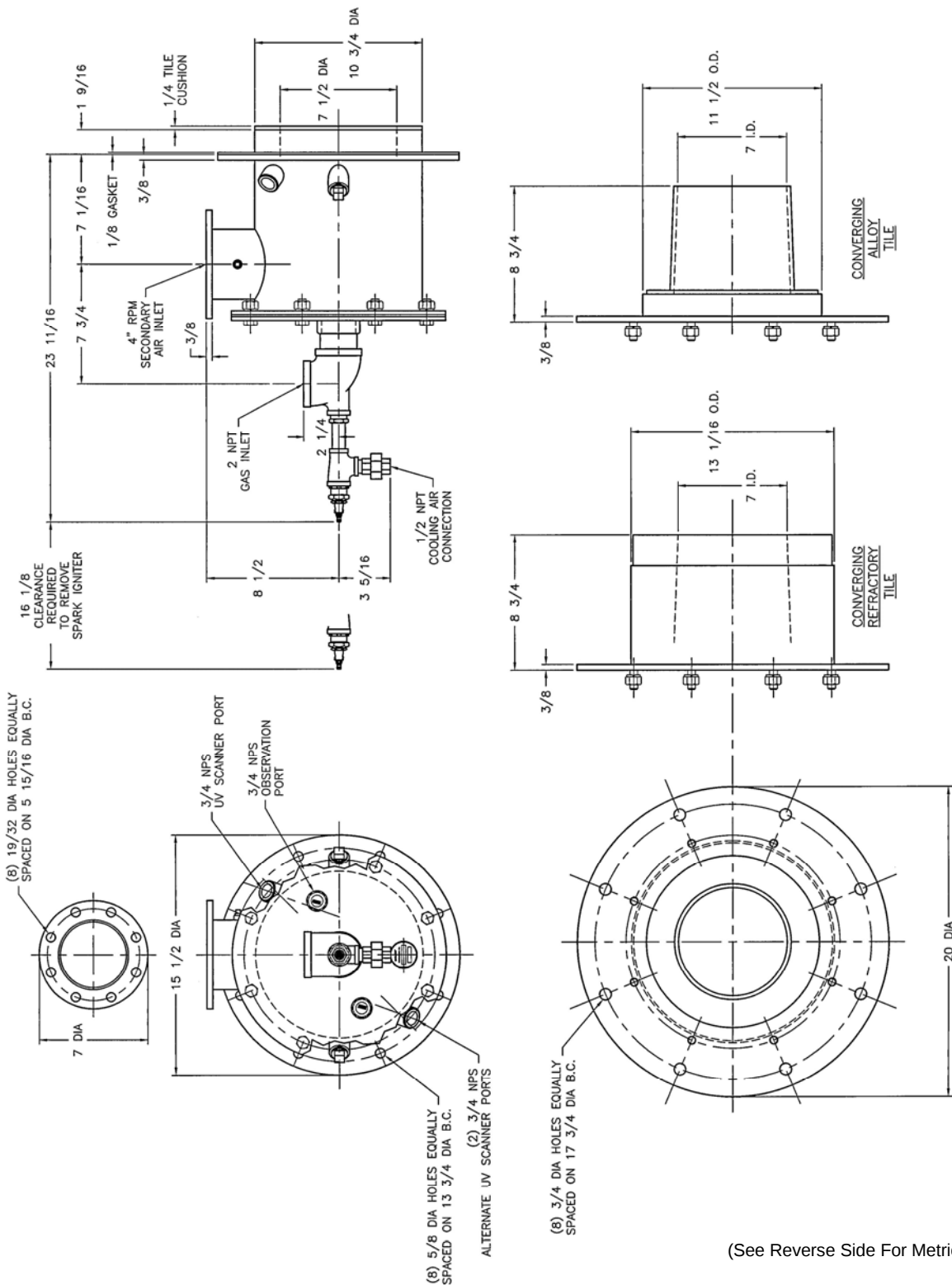
(See Reverse Side For Metric Dimensions)



DIMENSIONS

BBG BETA BURNER – DIRECT SPARK IGNITION

BBG _204

X7800
(NOT TO SCALE)

NOTES:
 1. DIMENSIONS ARE IN INCHES.
 2. UV SCANNER MUST BE LOCATED ABOVE HORIZONTAL CENTER LINE OF BURNER.

(See Reverse Side For Metric Dimensions)

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Fax: 717-273-9882

BBG-3.3

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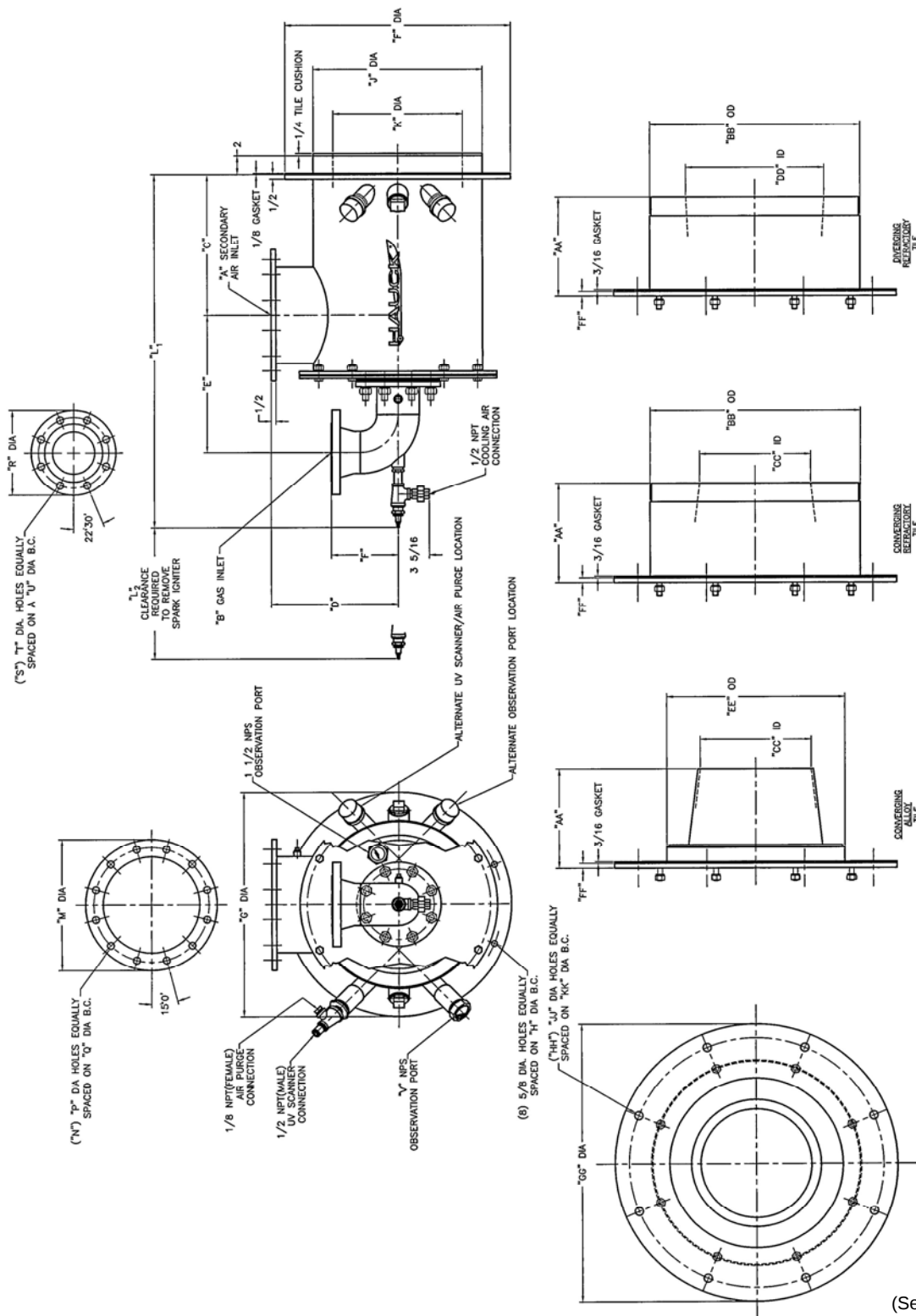
ventas@morterahauck.com



DIMENSIONS

BBG BETA BURNER – DIRECT SPARK IGNITION

BBG 206 Thru BBG 212



BURNER DIMENSIONS																					
MODEL NO.	A	B	C	D	E	F	G	H	J	K	L ₁	L ₂	M	N	P	Q	R	S	T	U	V
-206	3 ANSI	12-1/2	12-3/8	13 21/32	5 27/32	22	20	16	9-13/16	34 1/4	25 5/8	9	8	19/32	7-1/8	4	3/4	6	3/4	NPS	
-208	8 RPM	3 ANSI	12-1/2	12-3/8	13 21/32	5 27/32	22	16	9-13/16	34 5/32	25 3/4	11	8	9/16	10	7-1/2	4	3/4	6	3/4	NPS
-210	10 RPM	4 ANSI	15	13-1/2	14 9/16	7 3/32	24	22	18	13-3/4	37 19/32	29 1/2	14	12	3/4	12-1/4	9	8	3/4	7-1/2	1-1/2 NPS
-212	12 RPM	4 ANSI	17	14-1/2	15 7/16	7 3/32	26	24	20	15-3/4	40 31/32	31 15/16	16	12	3/4	14-1/4	9	8	3/4	7-1/2	1-1/2 NPS

NOTES:

1. DIMENSIONS ARE IN INCHES.

2. UV SCANNER MUST BE MOUNTED ABOVE HORIZONTAL CENTER LINE OF BURNER.

TILE DIMENSIONS										
MODEL NO.	AA	BB	CC	DD	EE	FF	GG	HH	JJ	KK
-206	8-3/4	18-5/16	7-13/16	10-1/2	16-7/8	1/2	28	8	7/8	25
-208	8-3/4	18-5/16	7-13/16	10-1/2	16-7/8	1/2	28	8	7/8	25
-210	10-5/8	22-5/16	11-3/4	14-5/8	18-7/8	1/2	30	8	7/8	27

NOTES:

1. DIMENSIONS ARE IN INCHES.
2. UV SCANNER MUST BE MOUNTED ABOVE HORIZONTAL CENTER LINE OF BURNER.

Y7801
(NOT TO SCALE)

(See Reverse Side For Metric Dimensions)

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ventas@morterahauck.com

BBG-3.4



SUPPLEMENTAL DATA

BBG BETA BURNER
GAS SERIES

BURNER MODEL BBG__04

NATURAL GAS OPERATION

	STATIC AIR PRESSURE AT BURNER INLET TAP					
	0.17 OSIG	1 OSIG	2 OSIG	4 OSIG	8 OSIG	12 OSIG
Burner Input @ 10% Excess Air (MMBtu/hr)	0.32	0.78	1.1	1.6	2.2	2.7
Max. Air Flow (scfh)	3,320	8,060	11,400	16,100	22,800	27,900
Gas Inlet Pressure ("wc)	0.01	0.05	0.1	0.2	0.4	0.6
Max. Excess Air (%)	100	200	300	400	400	300
Flame Length (ft)	2.7	2.7	2.7	3.2	4.5	5.5
Flame Diameter (ft)	0.9	1.0	1.0	1.0	1.5	1.5

NOTES:

1. Capacities based on natural gas with HHV of 1034 Btu/ft³, 0.59 S.G. and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure.
2. Air and gas flows based on 60°F @ sea level; capacities for preheated air will differ from those shown.
3. Flame lengths measured from the end of converging tile; for diverging tile add 18% to the flame length.
4. All data based on industry standard air and gas piping practices.
5. For excess fuel applications; consult Hauck.

(See Reverse Side for Metric Data)

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SUPPLEMENTAL DATA

BBG BETA BURNER
GAS SERIES

BURNER MODEL BBG__06

NATURAL GAS OPERATION

	STATIC AIR PRESSURE AT BURNER INLET TAP					
	0.17 OSIG	1 OSIG	2 OSIG	4 OSIG	8 OSIG	12 OSIG
Burner Input @ 10% Excess Air (MMBtu/hr)	0.69	1.7	2.5	3.5	4.9	6.0
Max. Air Flow (scfh)	7,140	18,000	25,400	35,900	50,800	62,200
Gas Inlet Pressure ("wc)	0.1	0.6	1.25	2.5	5.0	7.5
Max. Excess Air (%)	80	150	240	180	260	250
Flame Length (ft)	2.3	3.1	3.7	4.6	5.8	5.8
Flame Diameter (ft)	1.7	1.7	1.7	1.7	1.7	1.7

NOTES:

1. Capacities based on natural gas with HHV of 1034 Btu/ft³, 0.59 S.G. and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure.
2. Air and gas flows based on 60°F @ sea level; capacities for preheated air will differ from those shown.
3. Flame lengths measured from the end of converging tile; for diverging tile add 18% to the flame length.
4. All data based on industry standard air and gas piping practices.
5. For excess fuel applications; consult Hauck.

(See Reverse Side for Metric Data)

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SUPPLEMENTAL DATA

BBG BETA BURNER
GAS SERIES

BURNER MODEL BBG__08

NATURAL GAS OPERATION

		STATIC AIR PRESSURE AT BURNER INLET TAP					
		0.17 OSIG	1 OSIG	2 OSIG	4 OSIG	8 OSIG	12 OSIG
Burner Input @ 10% Excess Air (MMBtu/hr)		1.3	3.1	4.4	6.2	8.8	10.8
Max. Air Flow	(scfh)	13,300	32,300	45,700	64,600	91,300	112,000
Gas Inlet Pressure	("wc)	0.1	0.9	1.7	3.4	6.8	10.2
Max. Excess Air	(%)	240	425	425	500	800	400
Flame Length	(ft)	3.9	5.4	6.2	6.6	7.0	9.0
Flame Diameter	(ft)	2.1	2.6	2.6	2.6	3.0	3.5

NOTES:

1. Capacities based on natural gas with HHV of 1034 Btu/ft³, 0.59 S.G. and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure.
2. Air and gas flows based on 60°F @ sea level; capacities for preheated air will differ from those shown.
3. Flame lengths measured from the end of converging tile; for diverging tile add 18% to the flame length.
4. All data based on industry standard air and gas piping practices.
5. For excess fuel application; consult Hauck.

(See Reverse Side for Metric Data)

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SUPPLEMENTAL DATA

BBG BETA BURNER
GAS SERIES

BURNER MODEL BBG__10

NATURAL GAS OPERATION

		STATIC AIR PRESSURE AT BURNER INLET TAP					
		0.17 OSIG	1 OSIG	2 OSIG	4 OSIG	8 OSIG	12 OSIG
Burner Input @ 10% Excess Air (MMBtu/hr)		2.0	4.8	6.8	9.6	13.6	16.7
Max. Air Flow	(scfh)	20,600	49,900	70,500	99,700	141,000	173,000
Gas Inlet Pressure	("wc)	0.2	1.0	2.1	4.1	8.3	12.5
Max. Excess Air	(%)	100	250	320	300	275	275
Flame Length	(ft)	5.0	9.3	9.3	9.3	9.3	13.0
Flame Diameter	(ft)	3.4	4.3	4.7	4.3	4.3	5.0

NOTES:

1. Capacities based on natural gas with HHV of 1034 Btu/ft³, 0.59 S.G. and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure.
2. Air and gas flows based on 60°F @ sea level; capacities for preheated air will differ from those shown.
3. Flame lengths measured from the end of converging tile; for diverging tile add 18% to the flame length.
4. All data based on industry standard air and gas piping practices.
5. For excess fuel applications; consult Hauck.

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SUPPLEMENTAL DATA

BBG BETA BURNER
GAS SERIES

BURNER MODEL BBG__12

NATURAL GAS OPERATION

		STATIC AIR PRESSURE AT BURNER INLET TAP					
		0.17 OSIG	1 OSIG	2 OSIG	4 OSIG	8 OSIG	12 OSIG
Burner Input @ 10% Excess Air (MMBtu/hr)		2.9	7.0	9.9	14.0	19.8	24.2
Max. Air Flow	(scfh)	29,900	72,500	103,000	145,000	205,000	251,000
Gas Inlet Pressure	("wc)	0.06	0.4	0.8	1.5	3.0	4.5
Max. Excess Air	(%)	120	250	280	300	320	320
Flame Length	(ft)	3.1	6.2	7.0	7.7	10.1	14.0
Flame Diameter	(ft)	2.6	2.6	2.6	2.6	4.3	5.0

NOTES:

1. Capacities based on natural gas with HHV of 1034 Btu/ft³, 0.59 S.G. and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure.
2. Air and gas flows based on 60°F @ sea level; capacities for preheated air will differ from those shown.
3. Flame lengths measured from the end of converging tile; for diverging tile add 18% to the flame length.
4. All data based on industry standard air and gas piping practices.
5. For excess fuel applications; consult Hauck.

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SUPPLEMENTAL DATA

**BBG BETA BURNER
GAS SERIES****BURNER MODEL BBG_114****NATURAL GAS OPERATION**

		STATIC AIR PRESSURE AT BURNER INLET TAP					
		0.17 OSIG	1 OSIG	2 OSIG	4 OSIG	8 OSIG	12 OSIG
Burner Input @ 10% Excess Air (MMBtu/hr)		3.9	9.6	13.5	19.1	27	33.1
Max. Air Flow	(scfh)	40,800	99,000	140,000	198,000	280,000	343,000
Gas Inlet Pressure	("wc)	0.01	0.08	0.15	0.3	0.6	0.9
Max. Excess Air	(%)	150	200	250	285	400	400
Flame Length	(ft)	3.9	5.4	7.7	9.3	10.8	15.0
Flame Diameter	(ft)	1.7	2.1	2.6	2.6	3.4	5.0

NOTES:

1. Capacities based on natural gas with HHV of 1034 Btu/ft³, 0.59 S.G. and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure.
2. Air and gas flows based on 60°F @ sea level; capacities for preheated air will differ from those shown.
3. Flame lengths measured from the end of converging tile; for diverging tile add 18% to the flame length.
4. All data based on industry standard air and gas piping practices.
5. For excess fuel applications; consult Hauck.

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SUPPLEMENTAL DATA

BBG BETA BURNER
GAS SERIES

BURNER MODEL BBG_118

NATURAL GAS OPERATION

		STATIC AIR PRESSURE AT BURNER INLET TAP					
		0.17 OSIG	1 OSIG	2 OSIG	4 OSIG	8 OSIG	12 OSIG
Burner Input @ 10% Excess Air	(MMBtu/hr)	6.5	15.7	22.3	31.5	44.5	54.5
Max. Air Flow	(scfh)	67,200	163,000	231,000	326,000	461,000	565,000
Gas Inlet Pressure	("wc)	0.1	0.8	1.6	3.3	6.5	9.8
Max. Excess Air	(%)	280	280	300	480	650	650
Flame Length	(ft)	3.1	11.6	13.1	13.5	15.5	18.0
Flame Diameter	(ft)	1.7	2.6	2.7	3.0	4.3	5.0

NOTES:

1. Capacities based on natural gas with HHV of 1034 Btu/ft³, 0.59 S.G. and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure.
2. Air and gas flows based on 60°F @ sea level; capacities for preheated air will differ from those shown.
3. Flame lengths measured from the end of converging tile; for diverging tile add 18% to the flame length.
4. All data based on industry standard air and gas piping practices.
5. For excess fuel applications; consult Hauck.

(See Reverse Side for Metric Data)

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SUPPLEMENTAL DATA

BBG BETA BURNER
GAS SERIES

BURNER MODEL BBG_124

NATURAL GAS OPERATION

		STATIC AIR PRESSURE AT BURNER INLET TAP					
		0.17 OSIG	1 OSIG	2 OSIG	4 OSIG	8 OSIG	12 OSIG
Burner Input @ 10% Excess Air	(MMBtu/hr)	12.7	30.8	43.6	61.7	87	106
Max. Air Flow	(scfh)	132,000	319,000	452,000	639,000	903,000	1,110,000
Gas Inlet Pressure	("wc)	0.02	0.1	0.3	0.5	1.0	1.5
Max. Excess Air	(%)	100	150	250	400	600	600
Flame Length	(ft)	5.0	7.3	14.5	20	23.6	25.0
Flame Diameter	(ft)	2.0	3.0	4.0	4.0	5	5.0

NOTES:

1. Capacities based on natural gas with HHV of 1034 Btu/ft³, 0.59 S.G. and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure.
2. Air and gas flows based on 60°F @ sea level; capacities for preheated air will differ from those shown.
3. Flame lengths measured from the end of converging tile; diverging tile not available.
4. All data based on industry standard air and gas piping practices.
5. For excess fuel applications; consult Hauck.

(See Reverse Side for Metric Data)

In accordance with Hauck's commitment to Total Quality Improvement, Hauck reserves the right to change the specifications of products without prior notice.

HAUCK MANUFACTURING CO., P.O. Box 90 Lebanon, PA 17042-0090 717-272-3051

6/09

www.hauckburner.com

Fax: 717-273-9882

BBG-4.7

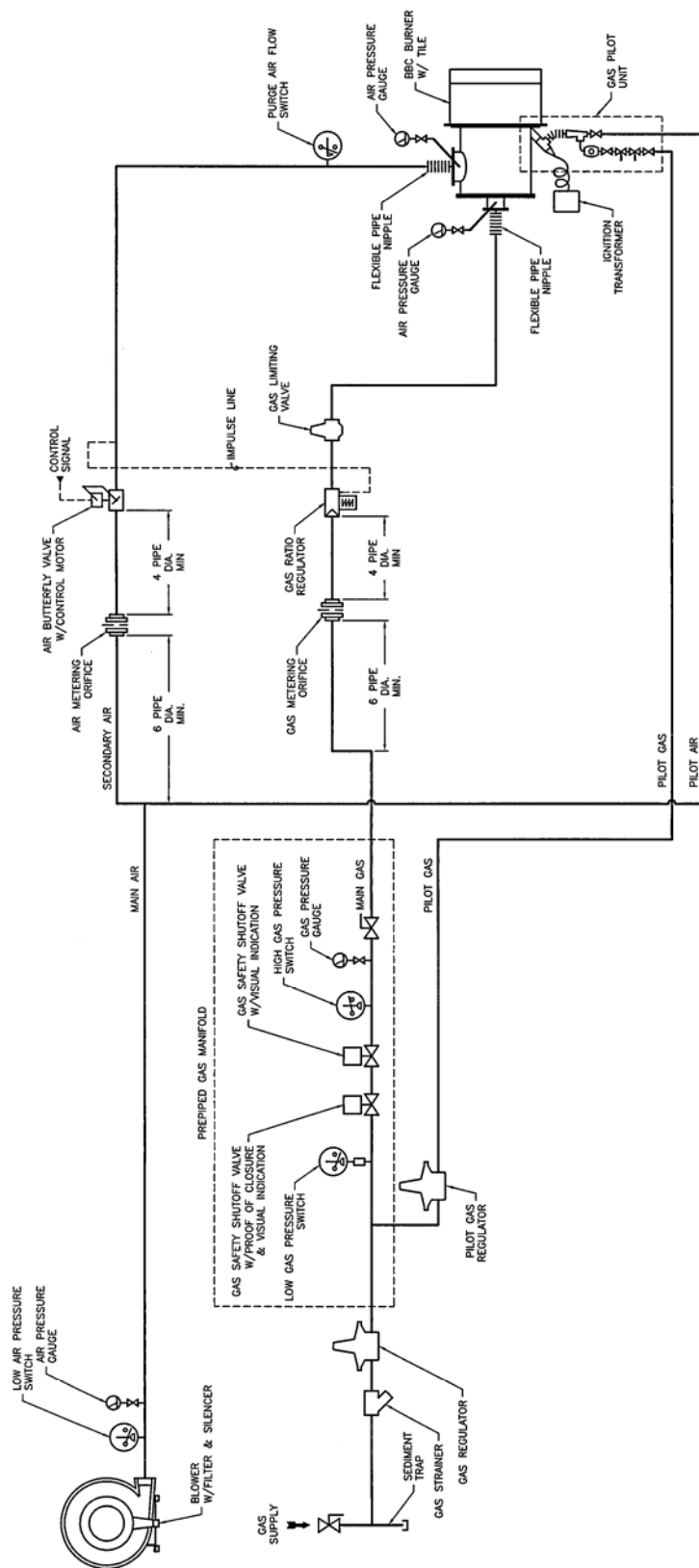
www.morterahauck.com

ventas@morterahauck.com



SUPPLEMENTAL DATA

BBG BETA BURNER GAS SERIES

CROSS-CONNECTED RATIO CONTROL
GAS W/PILOT IGNITIONY7729
(NOT TO SCALE)

NOTE:
1. PIPING SCHEMATIC SHOWN FOR PILOT IGNITED SINGLE BURNER FIRING GAS USING CROSS-CONNECTED RATIO CONTROL. CONSULT FACTORY FOR MULTIPLE BURNER APPLICATIONS.

(OVER)

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11/07

www.hauckburner.com

Fax: 717-273-9882

BBG-4.8

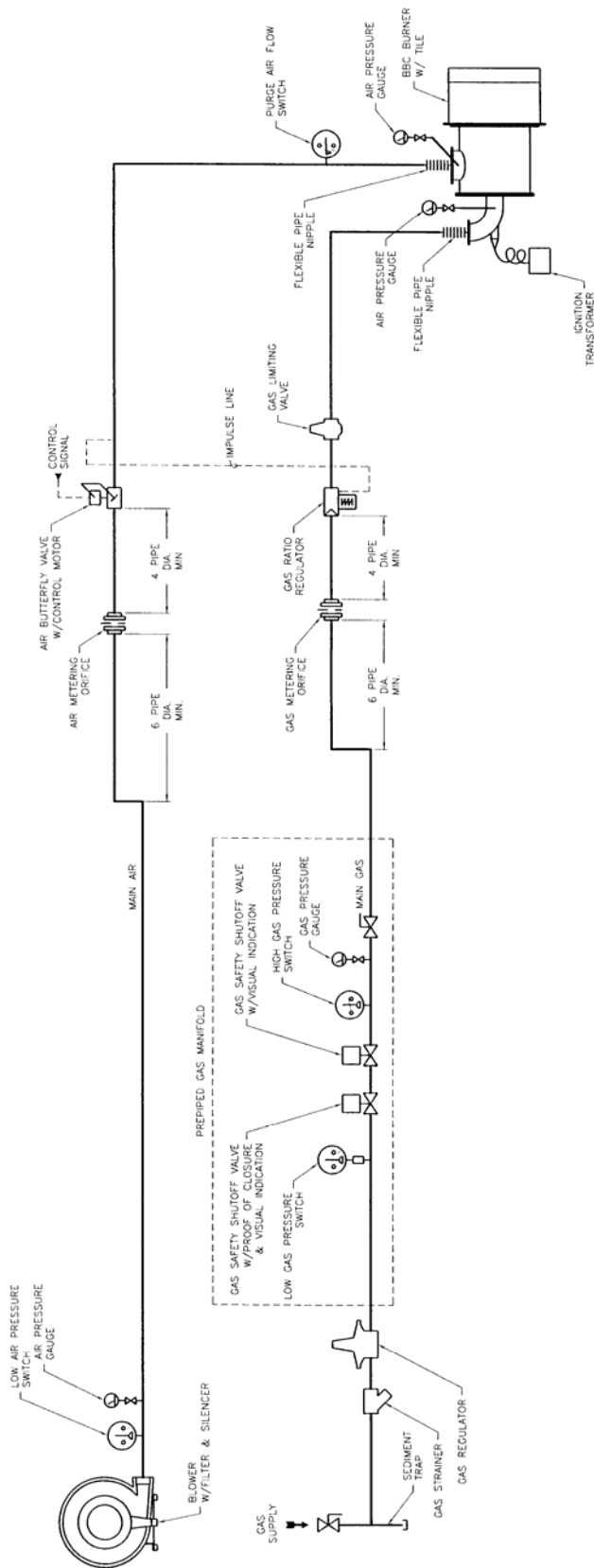
www.morterahauck.com

ventas@morterahauck.com



BBG BETA BURNER GAS SERIES

CROSS-CONNECTED RATIO CONTROL GAS W/DIRECT SPARK IGNITION



NOTE:
1. PIPING SCHEMATIC SHOWN FOR DIRECT SPARK IGNITED SINGLE BURNER FIRING GAS USING CROSS-CONNECTED RATIO CONTROL. CONSULT FACTORY FOR MULTIPLE BURNER APPLICATIONS.

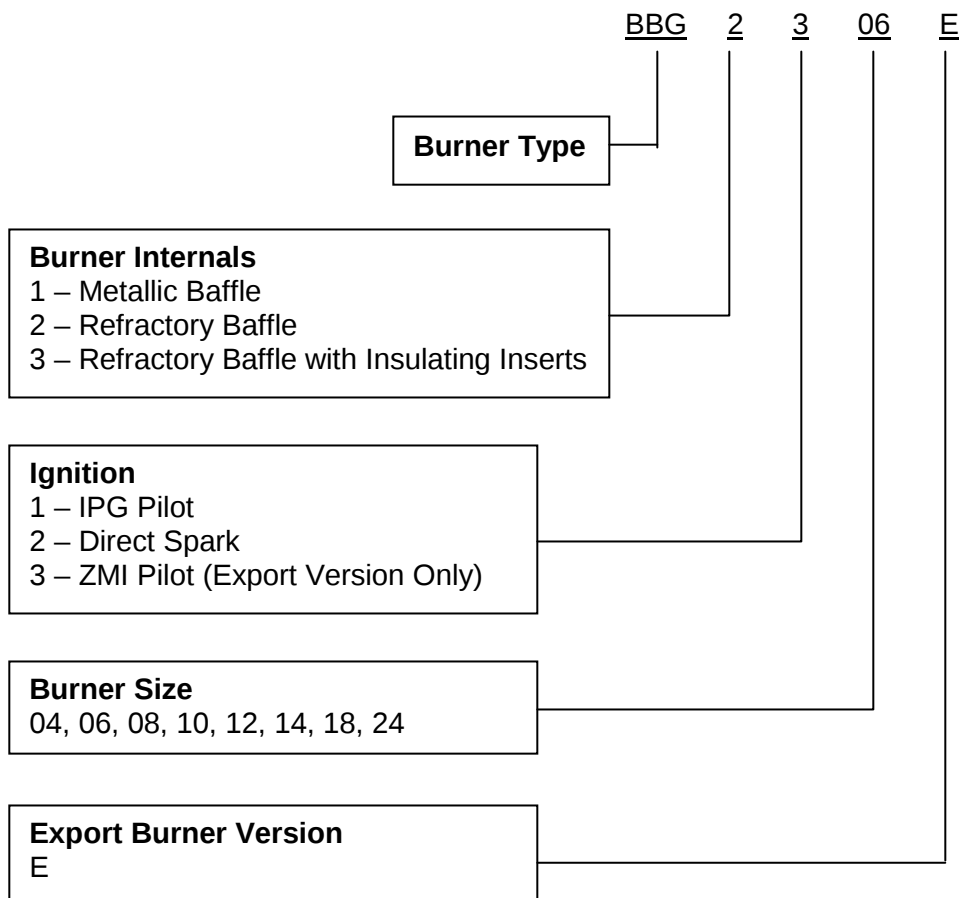
Y7823
(NOT TO SCALE)



SUPPLEMENTAL DATA

BBG BETA BURNER
GAS SERIES

ORDERING INFORMATION

**Tile Options**

Converging Refractory Tile
Converging Alloy Tile
Diverging Refractory Tile

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