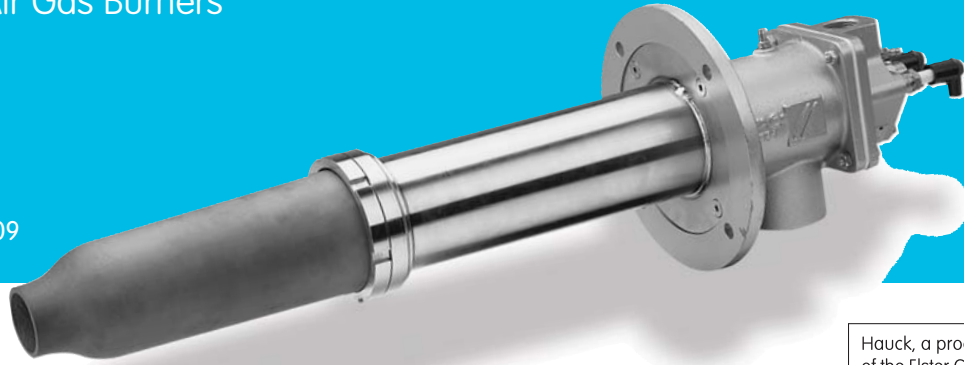




BIC..L

Excess Air Gas Burners

BIC..L-1
Edition 03-09



Hauck, a product brand
of the Elster Group



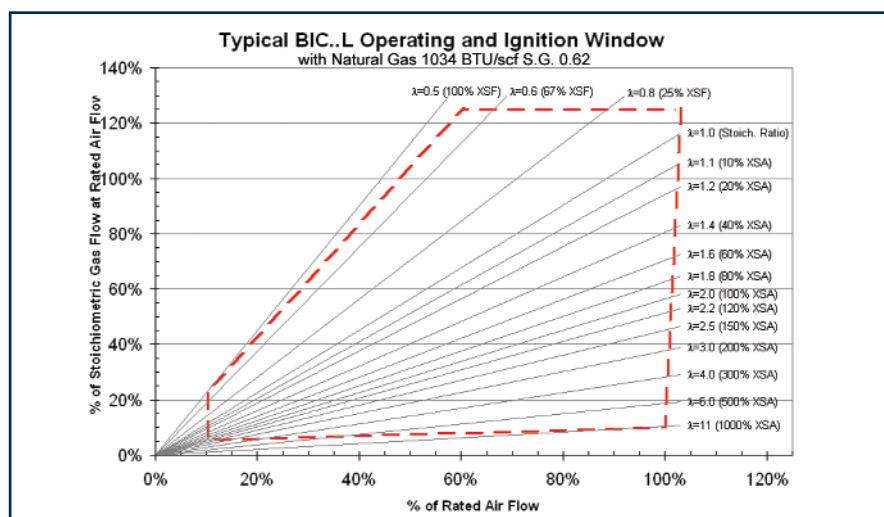
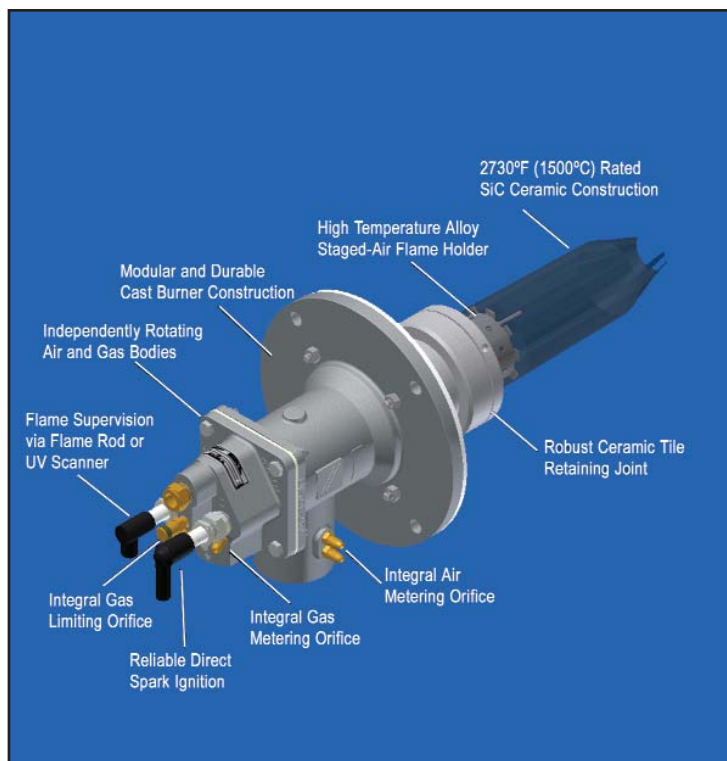
- High exit velocity
- Wide control range
- Reliable ignition
- High excess air capability
- Modular construction
- Low maintenance
- Available in a variety of lengths
- Integral adjustable fuel limiting orifice
- Integral air and fuel metering orifices
- Flame rod or UV flame supervision
- Capacities from .25 to 1.6M BTU/hr



The BIC..L Excess Air Gas Burners are designed for applications that benefit from intensive combustion gas recirculation, increased efficiency, improved temperature uniformity, and substantially reduced emissions. The burner is offered in three models with a range of lengths and offers six distinct capacity ranges. They reliably and dependably fire any clean industrial fuel gas over a wide operational range from excess air to excess fuel.

The BIC..L burner is designed for applications requiring precise temperature control and consistent product quality. It is ideal for use in tunnel kilns and intermittent systems such as those used in the ceramics industry. The burner's integral fuel flow measurement and adjustment, as well as the air flow measurement, provide the means to accurately set up the burner air to fuel ratio while simplifying the combustion system design. The burner's compact design makes it ideal for both new and retrofit applications.

The BIC..L burner is designed specifically for simplicity of operation and burner setup. The high temperature alloy flame holder offers durability, stability and low emissions. The SiC combustion tile is lightweight and easy to install. The burner's superior stability and operating range make it suitable for almost any control scheme - pulse firing, proportional and/or fuel only type control.



The above chart illustrates the excellent stability characteristics of the BIC..L burner series, from very high excess air (XSA) to fuel rich (XSF) operating conditions, and the burner's wide turndown range (on ratio or with excess air).

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

www.hauckburner.com

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of the Elster Group



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BIC TLB GAS BURNER

BIC TLB BURNER CAPACITIES (STANDARD)

BURNER	COMBUSTION TILE	BURNER PERFORMANCE	BURNER STATIC INLET AIR PRESSURE (OSIG)					
			0.17	1.0	4.0	8.0	12	16
BIC 80	33mm TSC	Input Capacity (10 ³ BTU/hr)	38	78	155	225	270	320
		Max Excess Air (%)	250	350	800	1,000	1,000	1,200
		Flame Length (in)	16	24	24	24	24	24
	40mm TSC	Input Capacity (10 ³ BTU/hr)	60	105	250	340	450	540
		Excess Air (%)	50	500	700	600	500	500
		Flame Length (in)	16	24	26	26	28	28
BIC 100	40mm TSC	Input Capacity (10 ³ BTU/hr)	80	170	315	465	570	675
		Max Excess Air (%)	500	1,000	1,100	1,200	925	750
		Flame Length (in)	24	28	30	30	30	30
	50mm TSC	Input Capacity (10 ³ BTU/hr)	90	230	390	555	700	845
		Max Excess Air (%)	700	1,200	1,150	800	725	700
		Flame Length (in)	20	24	30	32	36	36
BIC 140	55mm TSC	Input Capacity (10 ³ BTU/hr)	165	290	615	880	1,150	1,375
		Max Excess Air (%)	500	1,000	1,100	1,200	1,300	1,250
		Flame Length (in)	24	24	18	24	26	28
	70mm TSC	Input Capacity (10 ³ BTU/hr)	245	375	815	1,095	1,365	1,695
		Max Excess Air (%)	700	1,000	1,200	1,300	1,000	800
		Flame Length (in)	32	32	28	30	32	34

NOTES:

- Capacities based on Natural Gas with HHV of 1034 Btu/ft³ (Standard), and LHV of 10.21 kWh/nm³ (Metric), 0.62 S.G., and a stoichiometric ratio of 9.74:1 with burner firing into chamber under no pressure at 10% excess air.
- Excess air based on 5mA or higher flame signal via flame rod and Kromschroder Burner Control.
- Flame lengths measured from end of burner combustion tile.

(See Reverse Side For Metric Capacities)

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

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3/09

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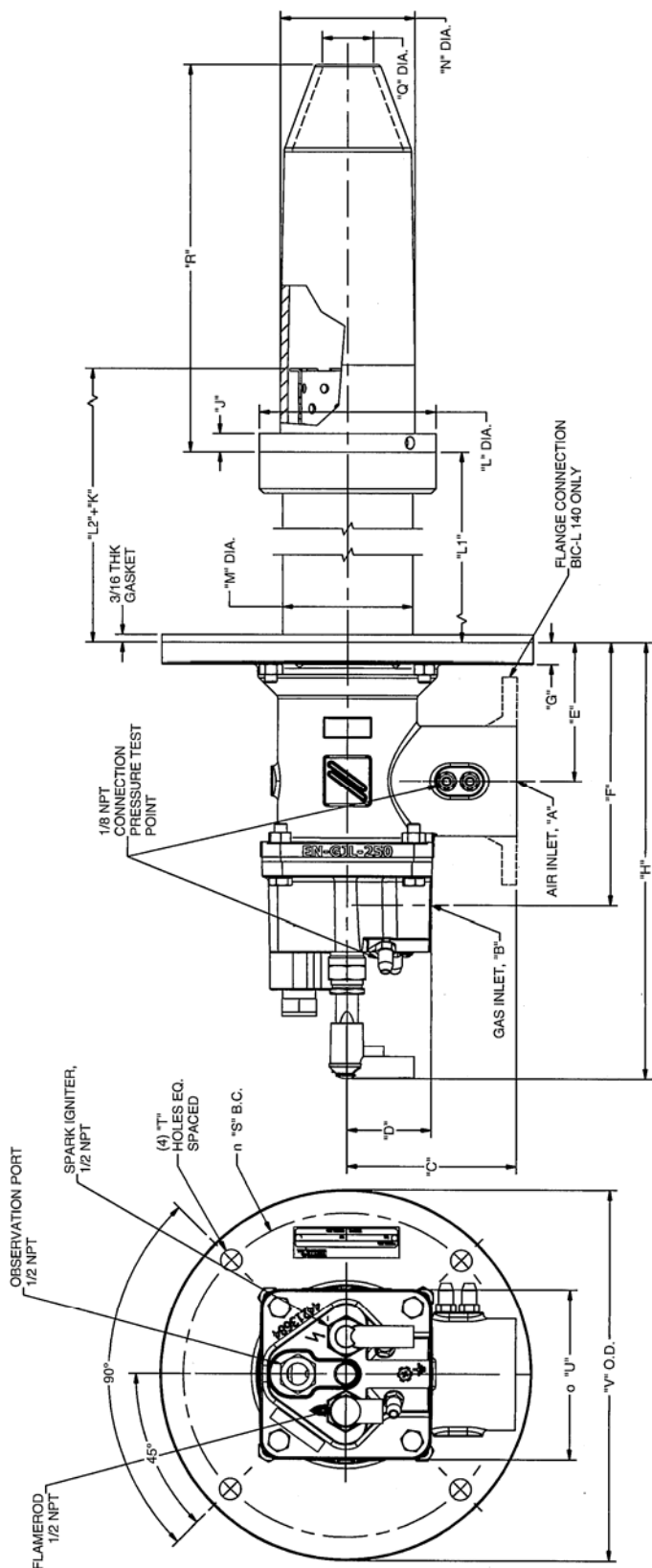
ventas@morterahauck.com

BIC..L-2



DIMENSIONS

BIC TLB GAS BURNER



BURNER MODEL NO.	DIMENSIONS										DIMENSIONS													
	TUBE	LI	I ²	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	U	V
B0301-LB-L1/2-H01	B033	0.23-0.58	1.38 - 2.25	2 NPT	3/4 NPT	4.5/16	2.5/32	3.17/32	6.23/32	9/16	11.3/16	1.5/32	3/4	4 1/2	37/16	37/16	1.3/16	1.3/16	9.5/16	8.17/64	3.5/64	4.5/16	9.7/16	9.7/16
B0301-LB-L1/2-H01	B040	0.23-0.58	1.38 - 2.25	2 NPT	3/4 NPT	3.1/16	2.5/32	3.17/32	6.23/32	9/16	11.3/16	1.5/32	3/4	4 1/2	37/16	37/16	1.3/16	1.3/16	9.5/16	8.17/64	3.5/64	4.5/16	9.7/16	9.7/16
B0301-LB-L1/2-H01	B050	0.23-0.58	1.38 - 2.25	2 NPT	3/4 NPT	3.1/16	2.5/32	3.17/32	6.23/32	9/16	11.3/16	1.5/32	3/4	4 1/2	37/16	37/16	1.3/16	1.3/16	9.5/16	8.17/64	3.5/64	4.5/16	9.7/16	9.7/16
B0301-LB-L1/2-H01	B065	0.23-0.58	1.38 - 2.25	2 NPT	1 NPT	3.1/16	2.1/32	4.1/16	7.1/16	5.8	11.5/8	1.9/32	2.1/8	4.5/16	4	4.3/32	1.3/32	1.7/8	7.7/8	3.5/64	4.3/4	9.7/16	9.7/16	9.7/16
B0301-LB-L1/2-H01	B055	0.23-0.58	1.38 - 2.25	3 ANS	1 1/2 NPT	5.29/32	3.1/8	5.1/8	10.5/8	3/4	15.5/16	5/8	3	6.5/8	5 1/2	5.19/32	2.3/4	11.7/8	10.7/16	3.5/64	6.5/16	11.13/16	11.13/16	11.13/16
B0301-LB-L1/2-H01	B070	0.23-0.58	1.38 - 2.25	3 ANS	1 1/2 NPT	5.29/32	3.1/8	5.1/8	10.5/8	3/4	15.5/16	5/8	3	6.5/8	5 1/2	5.19/32	2.3/4	11.7/8	10.7/16	3.5/64	6.5/16	11.13/16	11.13/16	11.13/16

Y8343
(NOT TO SCALE)

(See Reverse Side For Metric Dimensions)

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BIC..L-3



SUPPLEMENTAL DATA

**BIC TLB GAS BURNER
ORDERING INFORMATION**

Order Example
BIC 80TLB-100/135-(H01)

	<u>BIC</u>	<u>80</u>	<u>T</u>	<u>L</u>	<u>B</u>	<u>-0...</u>	<u>/35...</u>	<u>A-Z</u>	<u>01-99</u>
Burner Type									
Burner Size 80, 100, 140									
Air and Fuel Connections T – NPT/ANSI _ – RP Adapters									
Burner Head Type L – Excess Air									
Fuel Type B – Natural Gas									
Length of Burner Extension (mm) Range – 0 – 600mm in 100mm Increments									
Position of Burner Head (mm)									
Construction Stage A, B, C,...									
Burner Head Revision 01, 02, 03,...									

(Tile Ordering Information on Reverse Side)

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Order Example
TSC 80 B033-250/35-Si-1500

