

BORON CARBIDE NOZZLES



GRAYSTAR 

QUALITY • SERVICE • PRICE

www.graystarllc.com

8500 SHERIDAN DRIVE • WILLIAMSVILLE, NY 14221
(716) 633-0077 • FAX (716) 633-0099
E-MAIL aloxman1@aol.com

GRAYSTAR  LLC

BORON CARBIDE NOZZLES

**LONGER LIFE
LOWER COST PER USE**

**REDUCE DOWN TIME
MAINTAIN EFFICIENCY**

Boron Carbide nozzles are the longest lasting nozzles commercially available.
Boron Carbide costs more but will outlast tungsten carbide by 3 to 10 times.

ESTIMATED SERVICE LIFE IN HOURS

NOZZLE MATERIAL	STEEL GRIT/SHOT	SAND	ALUMINUM OXIDE
Alumina	20-40	10-30	1-4
Tungsten Carbide	500-800	300-400	20-40
Silicon Carbide	600-1000	400-600	50-100
Boron Carbide	1500-2500	750-1500	200-1000

Values for comparison only. Actual service life will vary.

PART NO.	BORE STRAIGHT	FLANGE	1 1/8"	1 3/8"	7/8"	3/16"
41411 F1	1/4					
51411 F1	5/16					
61411 F1	3/8					
71411 F1	7/16					
81411 F1	1/2					

PART NO.	BORE STRAIGHT	THREAD	2 1/8"	1 1/4"
22017 T1	1/8	N.P.S.		
32017 T1	3/16	1 1/4"		
42017 T1	1/4	1 1/2"		
52017 T1	5/16			
62017 T1	3/8			
72017 T1	7/16			
82017 T1	1/2			

PART NO.	BORE STRAIGHT	THREAD	2"	3/4"-14"
21616 T4	1/8	N.P.S.		
31616 T4	3/16			
41616 T4	1/4			
51616 T4	5/16			
61616 T4	3/8			
71616 T4	7/16			
81616 T4	1/2			

Other lengths available upon request

PART NO.	BORE STRAIGHT	THREAD	3 1/8"	1 1/4"
22025 T1	1/8	N.P.S.		
32025 T1	3/16	1 1/4"		
42025 T1	1/4	1 1/2"		
52025 T1	5/16			
62025 T1	3/8			
72025 T1	7/16			
82025 T1	1/2			

Other lengths available upon request

PART NO.	BORE VENTURI	THREAD	2"	3/4"-14"
31616 T4 SV	3/16	N.P.S.		
41616 T4 SV	1/4			
51616 T4 SV	5/16			
61616 T4 SV	3/8			
71616 T4 SV	7/16			
81616 T4 SV	1/2			

PART NO.	BORE STRAIGHT	THREAD	6 1/8"	1 1/4"
42049 T1	1/4	N.P.S.		
52049 T1	5/16	1 1/4"		
62049 T1	3/8	1 1/2"		
72049 T1	7/16			
82049 T1	1/2			

Other lengths available upon request

PART NO.	BORE STRAIGHT	THREAD	2"	1"-14"
21616 T5	1/8	N.F.		
31616 T5	3/16			
41616 T5	1/4			
51616 T5	5/16			
61616 T5	3/8			
71616 T5	7/16			
81616 T5	1/2			

Other lengths available upon request

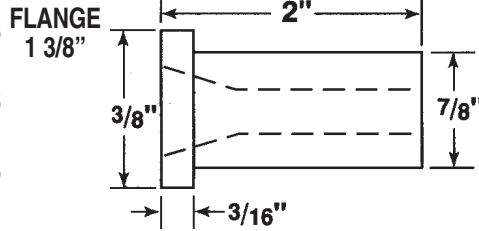
PART NO.	BORE STRAIGHT	TAPERED	1 3/4"	1 1/8"	15/16"
21814 TP	1/8				
2 1/2 1814 TP	5/32				
31814 TP	3/16				
41814 TP	1/4				

PART NO.	BORE VENTURI	THREAD	2"	1"-14"
31616 T5 SV	3/16	N.F.		
41616 T5 SV	1/4			
51616 T5 SV	5/16			
61616 T5 SV	3/8			
71616 T5 SV	7/16			
81616 T5 SV	1/2			

PART NO.	BORE STRAIGHT	TAPERED	4"	1 1/8"	15/16"
21832 TP	1/8				
2 1/2 1832 TP	5/32				
31832 TP	3/16				
41832 TP	1/4				

PART NO. BORE STRAIGHT

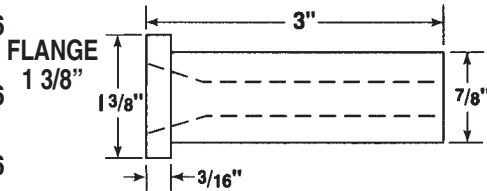
21416 F1	1/8
31416 F1	3/16
41416 F1	1/4
51416 F1	5/16
61416 F1	3/8
71416 F1	7/16
81416 F1	1/2



*F2= 1 1/8" O D

PART NO. BORE STRAIGHT

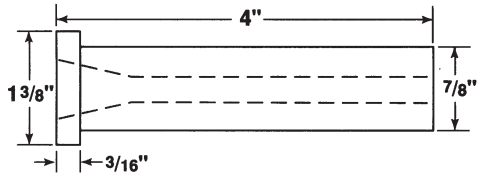
21424 F1	1/8
31424 F1	3/16
41424 F1	1/4
51424 F1	5/16
61424 F1	3/8
71424 F1	7/16
81424 F1	1/2



*F2= 1 1/8" O D

PART NO. BORE STRAIGHT

21432 F1	1/8
31432 F1	3/16
41432 F1	1/4
51432 F1	5/16
61432 F1	3/8
71432 F1	7/16
81432 F1	1/2

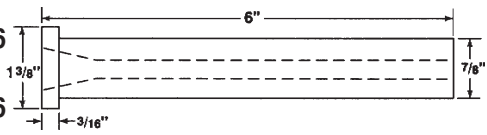


FLANGE 1 3/8"

*F2= 1 1/8" O D

PART NO. BORE STRAIGHT

41448 F1	1/4
51448 F1	5/16
61448 F1	3/8
71448 F1	7/16
81448 F1	1/2

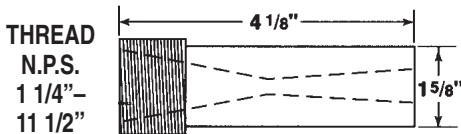


FLANGE 1 3/8"

*F2= 1 1/8" O D

PART NO. BORE VENTURI

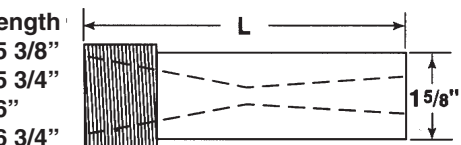
32633T3 SV	3/16
42633T3 SV	1/4
52633T3 SV	5/16
62633T3 SV	3/8
72633T3 SV	7/16
82633T3 SV	1/2



THREAD 1 1/4" - 11 1/2" N.P.S.

PART NO. BORE VENTURI

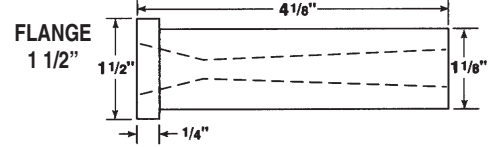
42643T3 SV	1/4
52663T3 SV	5/16
62648T3 SV	3/8
72654T3 SV	7/16
82672T3 SV	1/2



THREAD 1 1/4" - 11 1/2" N.P.S.

PART NO. BORE VENTURI

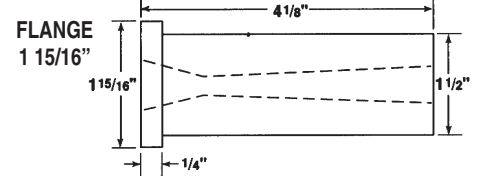
31833 F3 SV	3/16
41833 F3 SV	1/4
51833 F3 SV	5/16
61833 F3 SV	3/8
71833 F3 SV	7/16
81833 F3 SV	1/2



*F4= 1 3/8" O D

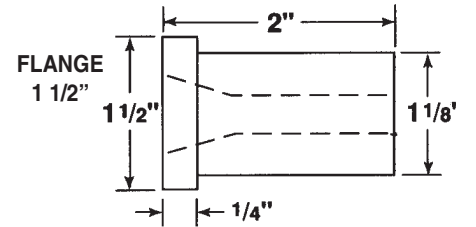
PART NO. BORE VENTURI

32433 F6SV	3/16
42433 F6SV	1/4
52433 F6SV	5/16
62433 F6SV	3/8
72433 F6SV	7/16
82433 F6SV	1/2



PART NO. BORE STRAIGHT

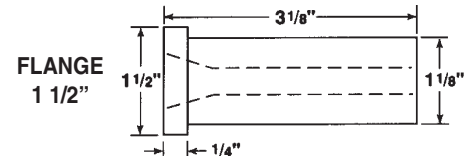
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31816 F3	3/16
41816 F3	1/4
51816 F3	5/16
61816 F3	3/8
71816 F3	7/16
81816 F3	1/2



*F4= 1 3/8" O D

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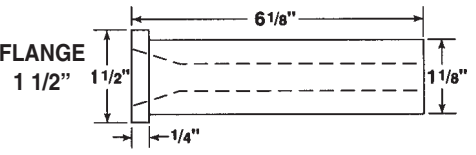
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31825 F3	3/16
41825 F3	1/4
51825 F3	5/16
61825 F3	3/8
71825 F3	7/16
81825 F3	1/2



*F4= 1 3/8" O D

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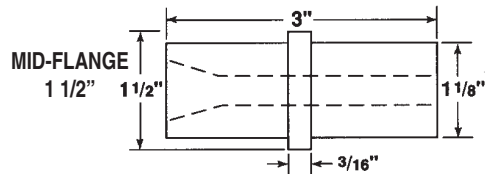
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31849 F3	3/16
41849 F3	1/4
51849 F3	5/16
61849 F3	3/8
71849 F3	7/16
81849 F3	1/2



*F4= 1 3/8" O D

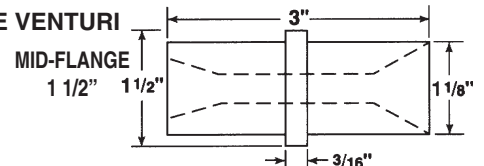
PART NO. BORE STRAIGHT

21824 F5	1/8
31824 F5	3/16
41824 F5	1/4
51824 F5	5/16
61824 F5	3/8
71824 F5	7/16
81824 F5	1/2



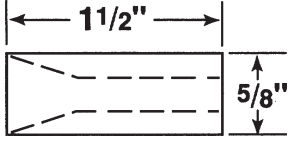
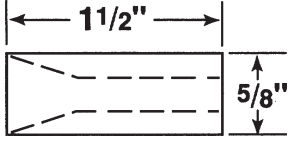
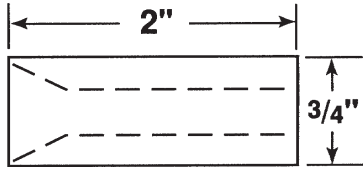
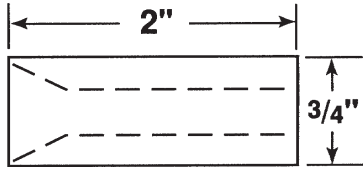
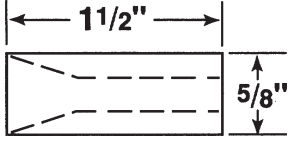
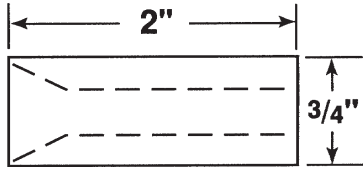
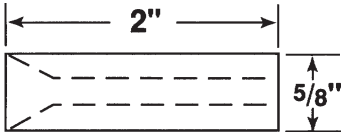
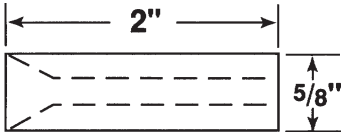
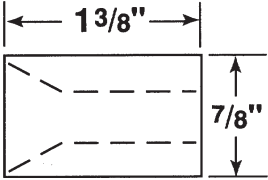
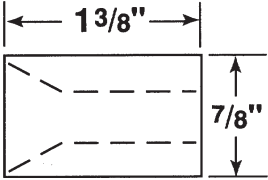
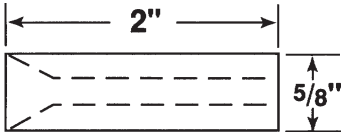
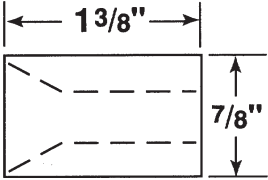
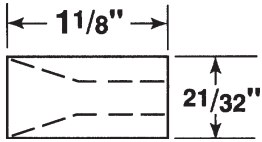
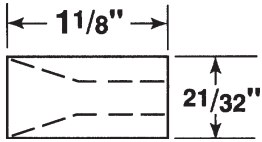
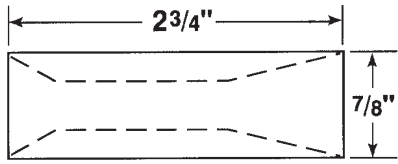
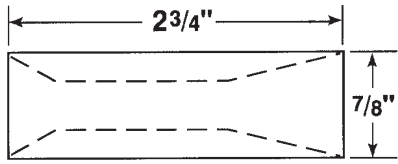
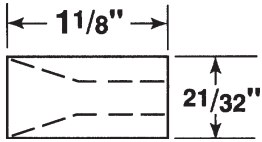
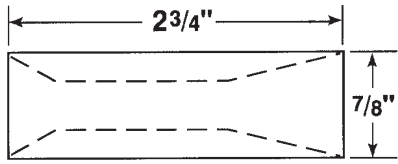
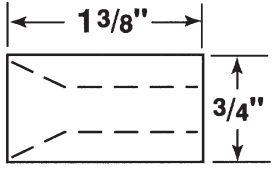
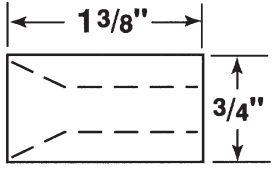
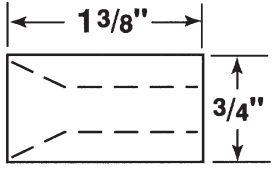
PART NO. BORE VENTURI

51824 F5 WS	5/16
61824 F5 WS	3/8
81824 F5 WS	1/2



WIDE SPRAY

BORON CARBIDE INSERTS

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PLEASE NOTE:

- CUSTOM DESIGNS AVAILABLE
- OTHER STYLES, BORE SIZES & LENGTHS AVAILABLE UPON REQUEST
- MINIMUM ORDER QUANTITY MAY APPLY TO SOME NOZZLE & INSERT ORDERS
- PLEASE CONTACT CUSTOMER SERVICE FOR FURTHER INFORMATION

GRAYSTAR★LLC

(716) 633-0077 • Fax (716) 633-0099 • Email: aloxman1@aol.com

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