





The Crown 2006 Product catalog

Welcome!...to the Crown family of products

About us...

Crown Engineering Corporation...the Manufacturer!

Crown Engineering Corporation is one of the largest manufacturers of electrodes, flame rods, and probes for ignition related applications regarding oil and gas fired equipment. We manufacture many of the electrodes for today's waste oil burners. Our ignition electrodes can be found in **Beckett AFII** burners, **Wayne Blue Angel** oil burners, **Carlin's Elite** oil burners, **Midco** power gas burners, **Wayne** power gas burners, **Fulton** boilers, and **Kewanee** boilers. We have designed and supplied ignition products for grain drying equipment. Our products can even be found in hot water heaters, pressure washers, and diesel truck heaters, of all places!

Crown Engineering Corporation is also a manufacturer of terminal connectors. Our connectors are used in power source applications between electrode and transformer. We also manufacture connector to connector cable assemblies for **Fulton Boiler Co.**

Crown Engineering Corporation...the Distributor!

In addition to manufacturing electrodes and terminals for our customers we are swamped with numerous requests for other related products. We rose to the demands of our customers needs. After we began our, "Single Source!" campaign, it lead to an onslaught of numerous distribution items. These products range from industrial igniters, couplers, putty, gauge glass and fractional v-belts.

In Closing...

Crown Engineering is proud to present our 2006 Product Catalog, featuring over 1800 different cataloged products. Take the time to look through it. This is our most informative and organized edition ever! Our OEM electrode section has extras, such as, OEM part numbers and model number information. Up to date photos for many of the old Crown favorites have been added, and continuous page numbers with Section numbers instead of alpha sections. Our new "on edge description tabs," makes thumbing through sections easier than ever. So, don't judge our book by it's cover! Literally! Take a look inside, there's more!

We graciously welcome you, and thank you for choosing our company as a source of supply. We hope to serve you humbly for many years to come. If at any time you are not completely satisfied with the product(s), and service we offer, please do not hesitate to openly discuss the problem with us. With Crown there is never a problem that cannot be solved. We think of you as more than just a customer...we treat all our customers like family!. We look forward to hearing from you.

Sincerely,
Michael J. Palmer
President



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no entries

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no entries

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no entries



CROWN P/N: 20005 NAME: ACE OEM P/N: 212096 MODELS: UNKNOWN		CROWN P/N: 20155 NAME: AMERICAN STANDARD OEM P/N: 95603 MODELS: "E" FOR SHELLHEAD	
CROWN P/N: 20075 NAME: AERO OEM P/N: UNKNOWN MODELS: E & EHS		CROWN P/N: 20165 NAME: AMERICAN STANDARD OEM P/N: 23411 MODELS: DH-23-T	
CROWN P/N: 20076 NAME: AERO OEM P/N: 27-25132100 MODELS: FAFC, HF-U5, HFAFC.		CROWN P/N: 20188 NAME: AXEMAN-ANDERSON OEM P/N: LH 144539-7 & RH 144538-7 MODELS: UNKNOWN	
CROWN P/N: 20077 NAME: AERO OEM P/N: 27-25132100 MODELS: FAFC, HF-U5, HFAFC.		CROWN P/N: 20195 NAME: ARMSTRONG OEM P/N: 215-01A MODELS: UNKNOWN	
CROWN P/N: 20080 NAME: AERO OEM P/N: UNKNOWN MODELS: G & GHS		CROWN P/N: 20197 NAME: AUBURN OEM P/N: UNKNOWN MODELS: "AA" TURBULATOR	
CROWN P/N: 20125 NAME: AMERICAN STANDARD OEM P/N: 11385 MODELS: PH		CROWN P/N: 20200 NAME: ABC / SUNRAY OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 20135 NAME: AMERICAN STANDARD OEM P/N: 15156 MODELS: DH & PH2		CROWN P/N: 20205 NAME: ABC / SUNRAY OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 20140 NAME: AMERICAN STANDARD OEM P/N: 72918 MODELS: ARCO FLAME OIL BURNERS		CROWN P/N: 20220 NAME: ABC / SUNRAY OEM P/N: SA-8892 MODELS: 55A	
CROWN P/N: 20150 NAME: AMERICAN STANDARD OEM P/N: 94121 MODELS: "E" STANDARD HIGH & LOW PRESSURE		CROWN P/N: 20230 NAME: ABC / SUNRAY OEM P/N: A-9806-R-6 1/2 MODELS: 45 & 55J	



CROWN P/N: 20240 NAME: ABC / SUNRAY OEM P/N: SA-9899 MODELS: UNKNOWN		CROWN P/N: 20395 NAME: BAXTER OEM P/N: V9-119 MODELS: UNKNOWN	
CROWN P/N: 20245 NAME: ABC / SUNRAY OEM P/N: SA-10360 MODELS: 45		CROWN P/N: 20396 NAME: BAXTER OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 20250 NAME: ABC / SUNRAY OEM P/N: SA-10112 MODELS: 75		CROWN P/N: 20404 NAME: BECKETT OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 20310 NAME: ABC / SUNRAY OEM P/N: SA-11495 MODELS: 97AT & 97A HILO BURNER		CROWN P/N: 20410 NAME: BECKETT OEM P/N: UNKNOWN MODELS: SF, AF, & AFG UNDER 9" AIR TUBE	
CROWN P/N: 20315 NAME: ABC / SUNRAY OEM P/N: SA-11497 MODELS: 97AT & 97A HILO BURNER		CROWN P/N: 20411 NAME: BECKETT OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 20325 NAME: ABC / SUNRAY OEM P/N: SA-11446 MODELS: 62A & 96A		CROWN P/N: 20412 NAME: BECKETT OEM P/N: UNKNOWN MODELS: SF, AF, & AFG OVER 9" AIR TUBE	
CROWN P/N: 20330 NAME: ABC / SUNRAY OEM P/N: SA-12823 MODELS: 40CN & 92C		CROWN P/N: 20413 NAME: BECKETT OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 20335 NAME: ABC / SUNRAY OEM P/N: SA-12979 MODELS: MIGHTY MITE S, S1 & S2		CROWN P/N: 20414 NAME: BECKETT OEM P/N: UNKNOWN MODELS: MILLER FURNANCE - AF15 BURNER	
CROWN P/N: 20340 NAME: ABC / SUNRAY OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 20415 NAME: BECKETT OEM P/N: UNKNOWN MODELS: UNKNOWN	



CROWN P/N: 20416 NAME: BECKETT OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 20437 NAME: BECKETT OEM P/N: 6603250 MODELS: INTERTHERM	
CROWN P/N: 20417 NAME: BECKETT OEM P/N: 51096050 MODELS: UNKNOWN		CROWN P/N: 20441 NAME: BECKETT OEM P/N: 6600610 & 11 MODELS: INTERTHERM	
CROWN P/N: 20418 NAME: BECKETT OEM P/N: 5787-07 & -08 MODELS: AFG & AF-90		CROWN P/N: 20444 NAME: BECKETT OEM P/N: 5987L & R MODELS: CF BURNER	
CROWN P/N: 20420 NAME: BECKETT OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 20455 NAME: BETHLEHEM OEM P/N: A-1186 MODELS: SE-1186	
CROWN P/N: 20422 NAME: BECKETT OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 20465 NAME: BETHLEHEM OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 20425 NAME: BECKETT OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 20470 NAME: BETHLEHEM OEM P/N: 31G8101/8-2-182C MODELS: UNKNOWN	
CROWN P/N: 20428 NAME: BECKETT OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 20475 NAME: BETTENDORF OEM P/N: P-4757 MODELS: UNKNOWN	
CROWN P/N: 20430 NAME: BECKETT OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 20480 NAME: BETTENDORF OEM P/N: ET-119 MODELS: SE1855	
CROWN P/N: 20435 NAME: BECKETT OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 20495 NAME: BETTENDORF OEM P/N: M7509 & M7510 MODELS: UNKNOWN	



CROWN P/N: 20500 NAME: BETTENDORF OEM P/N: M7428 & M7429 MODELS: UNKNOWN		CROWN P/N: 20709 NAME: CARLIN OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 20505 NAME: BETTENDORF OEM P/N: M7512 & M7513 MODELS: UNKNOWN		CROWN P/N: 20710 NAME: CARLIN OEM P/N: A452 MODELS: 500, 600 & 800 CRD	
CROWN P/N: 20510 NAME: BETTENDORF OEM P/N: M7612 & M7613 MODELS: UNKNOWN		CROWN P/N: 20720 NAME: CARLIN OEM P/N: A106 MODELS: 501, 600, 601, 701, 801, 1050 & 1150 CRD JACOBS LADDER	
CROWN P/N: 20532 NAME: BETTENDORF OEM P/N: M7630 & M7631 MODELS: OHP32-3		CROWN P/N: 20725 NAME: CARLIN OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 20535 NAME: BETTENDORF OEM P/N: M7658 & M7659 MODELS: OHP30-5		CROWN P/N: 20730 NAME: CARLIN OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 20540 NAME: BETTENDORF OEM P/N: P-8-9884 & 9885 MODELS: UNKNOWN		CROWN P/N: 20760 NAME: CARLIN OEM P/N: A110 MODELS: 150 SERIES	
CROWN P/N: 20545 NAME: BETTENDORF OEM P/N: P-8-9312 & 9313 MODELS: UNKNOWN		CROWN P/N: 20770 NAME: CARLIN OEM P/N: A280 MODELS: 98-102, 100-101, 200-201 & 301 CRD 1/16" DIA ROD	
CROWN P/N: 27247 NAME: BLACK GOLD OEM P/N: BN710 MODELS: 140, 200, & 340		CROWN P/N: 20775 NAME: CARLIN OEM P/N: A457 MODELS: 99FRD 1/16" DIA ROD	
CROWN P/N: 20569 NAME: BLUERAY OEM P/N: CRN-14 MODELS: UNKNOWN		CROWN P/N: 20779 NAME: CARLIN OEM P/N: A457 MODELS: 99FRD 1/8" DIA ROD WITH 30 DEGREE TIP	



CROWN P/N: 20780 NAME: CARLIN OEM P/N: A766 MODELS: 98-102, 100-101, 200-201 & 301 CRD 1/8" DIA. ROD WITH 30 DEGREE TIP		CROWN P/N: 20810 NAME: CENTURY OEM P/N: 103068-4 1/2 MODELS: UNKNOWN	
CROWN P/N: 20781 NAME: CARLIN OEM P/N: A280 MODELS: 98-102, 100-101, 200-201 & 301 CRD 1/16" DIA. ROD WITH BB		CROWN P/N: 20820 NAME: CHICAGO EASTERN OEM P/N: P10129 & 28 MODELS: RING BURNERS	
CROWN P/N: 20782 NAME: CARLIN OEM P/N: A457 MODELS: 99FRD 1/16" DIA ROD WITH BB		CROWN P/N: 20850 NAME: CHRYSLER OEM P/N: 1025759 MODELS: UNKNOWN	
CROWN P/N: 20786 NAME: CARLIN OEM P/N: 76141 MODELS: ELITE BURNER WITH 5" AIR TUBE 2 1/2" BB		CROWN P/N: 20872 NAME: CLEAN BURN OEM P/N: 33183 MODELS: UNKNOWN	<p>Proprietary item. Contact Clean Burn directly.</p>
CROWN P/N: 20787 NAME: CARLIN OEM P/N: 76158 MODELS: ELITE BURNER WITH 7" AIR TUBE 4 1/2" BB		CROWN P/N: 20874 NAME: CLEAN BURN OEM P/N: 33085 & 33086 MODELS: UNKNOWN	
CROWN P/N: 20788 NAME: CARLIN OEM P/N: 76166 MODELS: ELITE BURNER WITH 9" AIR TUBE 6 1/2" BB		CROWN P/N: 20876 NAME: CLEAN BURN OEM P/N: 33109 REV 2 & 8 MODELS: CB-2000	
CROWN P/N: 20762 NAME: CARLIN OEM P/N: 76174 MODELS: ELITE BURNER WITH 11" AIR TUBE 8 1/2" BB		CROWN P/N: 20900 NAME: CLEAVER-BROOKS OEM P/N: 94-20 MODELS: UNKNOWN	
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CROWN P/N: 20805 NAME: CENTURY OEM P/N: 103068-4 MODELS: UNKNOWN		CROWN P/N: 20910 NAME: CLEAVER-BROOKS OEM P/N: 435-65 MODELS: P & M 25 TO 40	



CROWN P/N: 20912 NAME: CLEAVER-BROOKS OEM P/N: 435-63 MODELS: UNKNOWN		CROWN P/N: 20952 NAME: CLEAVER-BROOKS OEM P/N: 435-42 MODELS: P & M 50 & 60	
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CROWN P/N: 20946 NAME: CLEAVER-BROOKS OEM P/N: 435-100 MODELS: SERIES 100 MODEL 4	 100° 3/32 DIA.	CROWN P/N: 20977 NAME: CLEAVER-BROOKS OEM P/N: 435-38 MODELS: CB 125 TO 200	
CROWN P/N: 20950 NAME: CLEAVER-BROOKS OEM P/N: 435-36 MODELS: CB 125 TO 200		CROWN P/N: 20979 NAME: CLEAVER-BROOKS OEM P/N: 435-3 MODELS: UNKNOWN	
CROWN P/N: 20951 NAME: CLEAVER-BROOKS OEM P/N: 435-79 MODELS: CHB 50 TO 100 MODEL 4		CROWN P/N: 20980 NAME: CLEAVER-BROOKS OEM P/N: 435-22 MODELS: UNKNOWN	



CROWN P/N: 20982 NAME: CLEAVER-BROOKS OEM P/N: 435-74 MODELS: UNKNOWN		CROWN P/N: 21013 NAME: COLEMAN OEM P/N: 8870-420 MODELS: UNKNOWN	
CROWN P/N: 20984 NAME: CLEAVER-BROOKS OEM P/N: 435-78 MODELS: UNKNOWN		CROWN P/N: 21025 NAME: COLUMBIA BOILER OEM P/N: UNKNOWN MODELS: UNKNOWN	
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CROWN P/N: 20995 NAME: CLEAVER-BROOKS OEM P/N: 873-69 MODELS: ALL 2-7		CROWN P/N: 21105 NAME: DELCO OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 20996 NAME: CLEAVER-BROOKS OEM P/N: 873-70 MODELS: AME & AMGE 5 & 60		CROWN P/N: 21115 NAME: DELCO OEM P/N: 509146 MODELS: UNKNOWN	
CROWN P/N: 21010 NAME: COLEMAN OEM P/N: 4070-410 MODELS: UNKNOWN		CROWN P/N: 21155 NAME: DELCO OEM P/N: 5083431 MODELS: UNKNOWN	



CROWN P/N: 21177 NAME: DUCANE OEM P/N: A2053 MODELS: DM 5" TO 9" AIR TUBE - LESS BB		CROWN P/N: 21370 NAME: EDISON OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 21180 NAME: DUCANE OEM P/N: A2053 MODELS: DMR 10A & 10C WITH 5" AIR TUBE		CROWN P/N: 21375 NAME: EDISON OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 21182 NAME: DUCANE OEM P/N: UNKNOWN MODELS: DMR 15A & 15A-1 WITH 7" AIR TUBE		CROWN P/N: 21415 NAME: ELECTRO - MAGIC OEM P/N: 10-20101 MODELS: FM BURNER	
CROWN P/N: 21185 NAME: DUCANE OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 21450 NAME: ESSO OEM P/N: K77551X MODELS: UNKNOWN	
CROWN P/N: 21187 NAME: DUCANE OEM P/N: A3662 MODELS: TWJ & TC LESS BUSS BAR		CROWN P/N: 21555 NAME: FULTON OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 21190 NAME: DUCANE OEM P/N: UNKNOWN MODELS: TWJ & TC WITH 5" AIR TUBE		CROWN P/N: 21557 NAME: FULTON OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 21193 NAME: DUCANE OEM P/N: UNKNOWN MODELS: TWJ & TC WITH 7" AIR TUBE		CROWN P/N: 21560 NAME: FULTON OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 21300 NAME: ECLIPSE OEM P/N: 19196 MODELS: UNKNOWN		CROWN P/N: 21562 NAME: FULTON OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 21313 NAME: ECLIPSE OEM P/N: IH-13290 MODELS: UNKNOWN		CROWN P/N: 21563 NAME: FULTON OEM P/N: 2-20-000022 MODELS: UNKNOWN	



CROWN P/N: 21565 NAME: FULTON OEM P/N: 2-20-000021 MODELS: UNKNOWN		CROWN P/N: 21655 NAME: GENERAL OIL OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 21566 NAME: FULTON OEM P/N: 2-20-000043 MODELS: A & H		CROWN P/N: 21672 NAME: GORDON - PIATT OEM P/N: 921000-3500 MODELS: GP-216C PILOT FOR 5 1/2" & 8" AIR TUBE ROD .1875 DIA. 303 S/S	
CROWN P/N: 21570 NAME: FULTON OEM P/N: 2-20-000054 MODELS: UNKNOWN		CROWN P/N: 21674 NAME: GORDON - PIATT OEM P/N: 921000-3510 MODELS: GP-216C PILOT FOR 12" AIR TUBE ROD .1875 DIA. 303 S/S	
CROWN P/N: 21571 NAME: FULTON OEM P/N: 2-20-000071 MODELS: UNKNOWN		CROWN P/N: 21677 NAME: GORDON - PIATT OEM P/N: 210059-0000 MODELS: UNKNOWN	
CROWN P/N: 21573 NAME: FULTON OEM P/N: 2-20-000069 MODELS: UNKNOWN		CROWN P/N: 21681 NAME: GORDON - PIATT OEM P/N: 210049-0000-50-0000 MODELS: RL & RLS JACOBS	
CROWN P/N: 21610 NAME: GENERAL ELECTRIC OEM P/N: K-5703668AB MODELS: UNKNOWN		CROWN P/N: 21683 NAME: GORDON - PIATT OEM P/N: UNKNOWN MODELS: F7T	
CROWN P/N: 21615 NAME: GENERAL ELECTRIC OEM P/N: K-5703668AB MODELS: UNKNOWN		CROWN P/N: 21687 NAME: GORDON - PIATT OEM P/N: 280038 MODELS: 210036-1 FOR 4" AIR TUBE	
CROWN P/N: 21617 NAME: GENERAL ELECTRIC OEM P/N: V-5700834AC MODELS: ASM		CROWN P/N: 21689 NAME: GORDON - PIATT OEM P/N: 210036-0003 MODELS: 210036-3/5 FOR 2" AIR TUBE	
CROWN P/N: 21625 NAME: GENERAL ELECTRIC OEM P/N: K-5705183AD MODELS: UNKNOWN		CROWN P/N: 21690 NAME: GORDON - PIATT OEM P/N: 210036-0002 MODELS: 210036-2 FOR 8" AIR TUBE	



CROWN P/N: 21705 NAME: GORDON - PIATT OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 21875 NAME: HEIL-QUAKER OEM P/N: 68121 & 68126 MODELS: UNKNOWN	
CROWN P/N: 21718 NAME: GORDON - PIATT OEM P/N: E2226 MODELS: P460		CROWN P/N: 21880 NAME: HEIL-QUAKER OEM P/N: 93193 & 93195 MODELS: UNKNOWN	
CROWN P/N: 21733 NAME: GORDON - PIATT OEM P/N: 921000-0800 MODELS: B BURNERS		CROWN P/N: 21885 NAME: HEIL-QUAKER OEM P/N: 93194 & 93196 MODELS: UNKNOWN	
CROWN P/N: 21735 NAME: GORDON - PIATT OEM P/N: 921000-0700 MODELS: UNKNOWN		CROWN P/N: 21930 NAME: HOMESTEAD OEM P/N: 6014551 MODELS: UNKNOWN	
CROWN P/N: 21815 NAME: HASTINGS OEM P/N: 2948 MODELS: PILOT IGNITION		CROWN P/N: 21935 NAME: HOMESTEAD OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 21822 NAME: HASTINGS OEM P/N: 73-07-1525-13 MODELS: MDR2 TO DR3X		CROWN P/N: 21940 NAME: HOMESTEAD OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 21823R NAME: HASTINGS OEM P/N: 73-07-1526-16 MODELS: MDR2 TO DR3XL		CROWN P/N: 21945 NAME: HOMESTEAD OEM P/N: 6014504 MODELS: UNKNOWN	
CROWN P/N: 21825 NAME: HASTINGS OEM P/N: 73-07-1522-10 MODELS: UNKNOWN		CROWN P/N: 21996 NAME: INOV8 OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 21870 NAME: HEIL-QUAKER OEM P/N: 68120 & 68125 MODELS: UNKNOWN		CROWN P/N: 22010 NAME: INDUSTRIAL COMBUSTION OEM P/N: 873-0034-2 MODELS: P460	



CROWN P/N: 22013-01 NAME: INDUSTRIAL COMBUSTION OEM P/N: 873-108 MODELS: CB PROFILE #1 & #2. D & MARC BURNERS REPLACES 22021		CROWN P/N: 22083 NAME: IRON FIREMAN OEM P/N: 135161 & 135162 MODELS: UNKNOWN	
CROWN P/N: 22015 NAME: INDUSTRIAL COMBUSTION OEM P/N: 873-501-2 MODELS: SC 55 & 65		CROWN P/N: 22087 NAME: IRON FIREMAN OEM P/N: 134259 & 34260 MODELS: UNKNOWN	
CROWN P/N: 22016 NAME: INDUSTRIAL COMBUSTION OEM P/N: 873-76-2 MODELS: SC-55 FLAME ROD		CROWN P/N: 22088 NAME: IRON FIREMAN OEM P/N: 141833 & 141834 MODELS: UNKNOWN	
CROWN P/N: 22017 NAME: INDUSTRIAL COMBUSTION OEM P/N: 873-508 MODELS: D SERIES 28-300, FG, FMG, FGL, & FMGL		CROWN P/N: 22090 NAME: IRON FIREMAN OEM P/N: 136159 & 136160 MODELS: UNKNOWN	
CROWN P/N: 22020 NAME: INDUSTRIAL COMBUSTION OEM P/N: 873-0092-00 MODELS: FP & MP BURNERS		CROWN P/N: 22092 NAME: IRON FIREMAN OEM P/N: 149280-G01 MODELS: UNKNOWN	
CROWN P/N: 22021 NAME: INDUSTRIAL COMBUSTION OEM P/N: 873-0087-00 MODELS: D & MARC BURNERS	<p>REPLACED BY 22013-01</p>	CROWN P/N: 22095 NAME: IRON FIREMAN OEM P/N: 149280-G02 MODELS: UNKNOWN	
CROWN P/N: 22025 NAME: INTERBURNER OEM P/N: 26950 MODELS: UNKNOWN		CROWN P/N: 22098 NAME: IRON FIREMAN OEM P/N: 149281-G01 MODELS: UNKNOWN	
CROWN P/N: 22046 NAME: IRON FIREMAN OEM P/N: 149280-G03 MODELS: UNKNOWN		CROWN P/N: 22105 NAME: IRON FIREMAN OEM P/N: 137555 MODELS: AO 142059	
CROWN P/N: 22070 NAME: IRON FIREMAN OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 22115 NAME: IRON FIREMAN OEM P/N: 137161 MODELS: UNKNOWN	



CROWN P/N: 22144 NAME: IRON FIREMAN OEM P/N: 144437 MODELS: UNKNOWN		CROWN P/N: 22270 NAME: STONE JOHNSON OEM P/N: 3A6-12A MODELS: UNKNOWN	
CROWN P/N: 22146 NAME: IRON FIREMAN OEM P/N: 142766 MODELS: UNKNOWN		CROWN P/N: 22271 NAME: ACE OEM P/N: 3B12-10 MODELS: UNKNOWN	
CROWN P/N: 22148 NAME: IRON FIREMAN OEM P/N: 149439-G01 MODELS: UNKNOWN		CROWN P/N: 22300 NAME: KEWANEE OEM P/N: 213700100103 MODELS: GAS PILOT	
CROWN P/N: 22185 NAME: IRON FIREMAN OEM P/N: 149264-G01 MODELS: UNKNOWN		CROWN P/N: 22301 NAME: KEWANEE OEM P/N: 213760100101 MODELS: GAS PILOT	
CROWN P/N: 22197 NAME: IOWA MFG. OEM P/N: 45652-505-24 MODELS: UNKNOWN		CROWN P/N: 22302 NAME: KEWANEE OEM P/N: 21370100202 MODELS: OIL PILOT	
CROWN P/N: 22232 NAME: S.T. JOHNSON OEM P/N: A-4447 MODELS: UNKNOWN		CROWN P/N: 22305 NAME: KEWANEE OEM P/N: 213700100102 MODELS: GAS PILOT	
CROWN P/N: 22234 NAME: S.T. JOHNSON OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 22308 NAME: KEWANEE OEM P/N: 231700000102 MODELS: GAS PILOT	
CROWN P/N: 22240 NAME: S.T. JOHNSON OEM P/N: A-4790 MODELS: BH ALL SIZES		CROWN P/N: 22310 NAME: KEWANEE OEM P/N: 213760100301 MODELS: OIL PILOT	
CROWN P/N: 22260 NAME: JOHNSON GAS OEM P/N: SA-218-32 MODELS: FLAME ROD		CROWN P/N: 22315 NAME: KEWANEE OEM P/N: 213700100301 MODELS: GAS PILOT	



CROWN P/N: 22316 NAME: KEWANEE OEM P/N: 213790070901 MODELS: 2 TO 5 BURNER		CROWN P/N: 22428 NAME: LENNOX OEM P/N: 51A9401 & 301 MODELS: UNKNOWN	
CROWN P/N: 22317 NAME: KEWANEE OEM P/N: 213790070902 MODELS: 6 & 7 BURNER		CROWN P/N: 22429 NAME: LENNOX OEM P/N: P-8-5798 MODELS: GAS BUSS ROD	
CROWN P/N: 22320 NAME: KEWANEE OEM P/N: 950525-2 MODELS: UNKNOWN		CROWN P/N: 22434 NAME: LENNOX OEM P/N: 77C8301 MODELS: SENSOR	
CROWN P/N: 22326 NAME: KEWANEE OEM P/N: 309200000002 MODELS: UNKNOWN		CROWN P/N: 22435 NAME: LENNOX OEM P/N: 77C8201 MODELS: IGNITER	
CROWN P/N: 22407 NAME: LANDA OEM P/N: 7-9005 MODELS: UNKNOWN		CROWN P/N: 22463 NAME: LOCHINVAR OEM P/N: RLY-2705 MODELS: POWER FIN	
CROWN P/N: 22408 NAME: LANAIR OEM P/N: 8737 & 8738 MODELS: UNKNOWN		CROWN P/N: 22480 NAME: LYNN OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 22409 NAME: LANAIR OEM P/N: 8945 & 8944 MODELS: UNKNOWN		CROWN P/N: 25005 NAME: McQUAY OEM P/N: 357410-A-00 MODELS: UNKNOWN	
CROWN P/N: 22426 NAME: LENNOX OEM P/N: P-8-7038 MODELS: UNKNOWN		CROWN P/N: 25006 NAME: McQUAY OEM P/N: 365577-A-00 MODELS: UNKNOWN	
CROWN P/N: 22427 NAME: LENNOX OEM P/N: P-8-5784 MODELS: UNKNOWN		CROWN P/N: 25025 NAME: MALSABARY OEM P/N: 821669 MODELS: UNKNOWN	



CROWN P/N: 25045 NAME: MARSDEN OEM P/N: 179118 MODELS: UNKNOWN		CROWN P/N: 25156 NAME: MIDCO OEM P/N: 5234-50 MODELS: UNKNOWN	
CROWN P/N: 25047 NAME: MARSDEN OEM P/N: 25047-F3 MODELS: UNKNOWN		CROWN P/N: 25158 NAME: MIDCO OEM P/N: 5249-32 MODELS: TYPE 33 PILOT SPARK ROD	
CROWN P/N: 25058 NAME: MASTER VIBRATOR OEM P/N: M3987 REV H MODELS: HIGH PRESSURE HEATERS		CROWN P/N: 25168 NAME: MIDCO OEM P/N: 6430-00 MODELS: JDS ELECTRODE	
CROWN P/N: 25060 NAME: MASTER VIBRATOR OEM P/N: M3987 REV J MODELS: HIGH PRESSURE HEATERS		CROWN P/N: 25177 NAME: MIDCO OEM P/N: 6725-50 MODELS: UNIMITE SPARK ROD	
CROWN P/N: 25095 NAME: METAL MASTER OEM P/N: A-1031-4217 MODELS: UNKNOWN		CROWN P/N: 25180 NAME: MIDCO OEM P/N: 7171-00 MODELS: UNKNOWN	
CROWN P/N: 25107 NAME: METAL MASTER OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 25190 NAME: MIDCO OEM P/N: 3713-71 MODELS: NHL PILOT	
CROWN P/N: 25150 NAME: MIDCO OEM P/N: 1341-00 MODELS: ADAPTO PILOT FLAME ROD		CROWN P/N: 25193 OEM NAME: MIDCO OEM P/N: 7124-40 MODELS: AG FLAME ROD	
CROWN P/N: 25151 NAME: MIDCO OEM P/N: UNKNOWN MODELS: ADAPTO PILOT FLAME ROD		CROWN P/N: 35161 OEM NAME: MIDCO OEM P/N: 6457-00 MODELS: J82 / 83-DS	
CROWN P/N: 25152 NAME: MIDCO OEM P/N: 1342-00 MODELS: ADAPTO PILOT SPARK ROD		CROWN P/N: 35192 NAME: MIDCO OEM P/N: 6717-00 MODELS: UNKNOWN	



CROWN P/N: 35199 NAME: MIDCO OEM P/N: 6418-00 MODELS: J82 / 83-DS		CROWN P/N: 25230 NAME: M. HONEYWELL OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 25212 NAME: MILLER OEM P/N: 308-0550 MODELS: FS MODEL		CROWN P/N: 25420 NAME: NATIONAL RADIATOR OEM P/N: PD-6097-X1 MODELS: NB2, 2A, 2B, 2D, 2E AND 2K	
CROWN P/N: 25215 NAME: M. HONEYWELL OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 25434 NAME: NU-WAY OEM P/N: 308-0184 MODELS: 7000A-116 & 117	
CROWN P/N: 25216 NAME: M. HONEYWELL OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 25435 NAME: NU-WAY OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 25218 NAME: M. HONEYWELL OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 25440 NAME: NU-WAY OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 25220 NAME: M. HONEYWELL OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 25449 NAME: NU-WAY OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 25221 NAME: M. HONEYWELL OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 25454 OEM NAME: NU-WAY OEM P/N: 308-0550 MODELS: UNKNOWN	
CROWN P/N: 25222 NAME: M. HONEYWELL OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 25459 OEM NAME: NU-WAY OEM P/N: S308-0552 & 0551 MODELS: UNKNOWN	
CROWN P/N: 25226 NAME: M. HONEYWELL OEM P/N: UNKNOWN MODELS: ADAPTO PILOT SPARK ROD		CROWN P/N: 25470 NAME: NU-WAY OEM P/N: 038-0250 MODELS: UNKNOWN	



CROWN P/N: 25662 NAME: ORR & SEMBOWER OEM P/N: 324901019-1 MODELS: POWERMASTER BURNERS		CROWN P/N: 26780 NAME: PVI INDUSTRIES OEM P/N: 71907 MODELS: ALL GAS	
CROWN P/N: 26000 NAME: MILLER (L.S.I.) OEM P/N: 102823000 MODELS: UNKNOWN		CROWN P/N: 26782 NAME: PVI INDUSTRIES OEM P/N: 08381 MODELS: ALL GAS	
CROWN P/N: 26005 NAME: MILLER (L.S.I.) OEM P/N: 102835000 MODELS: UNKNOWN		CROWN P/N: 26785 NAME: PVI INDUSTRIES OEM P/N: 71906 MODELS: ALL GAS	
CROWN P/N: 26010 NAME: MILLER (L.S.I.) OEM P/N: 102836000 MODELS: UNKNOWN		CROWN P/N: 26796 NAME: PATTERSON-KELLY OEM P/N: B90549/86-2450-0820 MODELS: N-700 THRU N-2000	
CROWN P/N: 26020 NAME: MILLER (L.S.I.) OEM P/N: 102839000 MODELS: UNKNOWN		CROWN P/N: 26798 NAME: PATTERSON-KELLY OEM P/N: B89399/86-7100-0230 MODELS: N-700 THRU N-2000	
CROWN P/N: 26025 NAME: MILLER (L.S.I.) OEM P/N: 102840000 MODELS: UNKNOWN		CROWN P/N: 26805 NAME: PEABODY ENG. OEM P/N: E-38646-F MODELS: UNKNOWN	
CROWN P/N: 26030 NAME: MILLER (L.S.I.) OEM P/N: 102841000 MODELS: UNKNOWN		CROWN P/N: 26808 NAME: PEABODY ENG. OEM P/N: E-38647-D MODELS: UNKNOWN	
CROWN P/N: 26035 NAME: MILLER (L.S.I.) OEM P/N: 104165000 MODELS: UNKNOWN		CROWN P/N: 26856 NAME: PETRO OEM P/N: C114049 MODELS: UNKNOWN	
CROWN P/N: 26040 NAME: MILLER (L.S.I.) OEM P/N: 104003000 MODELS: UNKNOWN		CROWN P/N: 26860 NAME: PETRO OEM P/N: UNKNOWN MODELS: W1 TO W10	



CROWN P/N: 26865 NAME: PETRO OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 26893 NAME: POWERFLAME OEM P/N: X04220 MODELS: C2,C3, & C4 OIL BURNERS	
CROWN P/N: 26867 NAME: PETRO OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 26894 NAME: POWERFLAME OEM P/N: X04600 MODELS: J BURNERS	
CROWN P/N: 26871 NAME: POWERFLAME OEM P/N: 30D39-3 & 38-3 MODELS: UNKNOWN		CROWN P/N: 26910 NAME: PREFERRED UTILITIES OEM P/N: 07021 MODELS: UNKNOWN	
CROWN P/N: 26878 NAME: POWERFLAME OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 26925 NAME: PYRONICS OEM P/N: 1984-C1 MODELS: GTYS-10	
CROWN P/N: 26884 NAME: POWERFLAME OEM P/N: M-775 MODELS: FGO-FM-1 GAS PILOT		CROWN P/N: 26928 NAME: PYRONICS OEM P/N: 03302D1 MODELS: UNKNOWN	
CROWN P/N: 26887 NAME: POWERFLAME OEM P/N: X04210 MODELS: C, J, & CG		CROWN P/N: 26930 NAME: PYRONICS OEM P/N: 03302D2 MODELS: EN SERIES	
CROWN P/N: 26888 NAME: POWERFLAME OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 26936 NAME: PYRONICS OEM P/N: 2668-D1 MODELS: 2006-DO WALL ELECTRODE	
CROWN P/N: 26890 NAME: POWERFLAME OEM P/N: UNKNOWN MODELS: C, J, & CG		CROWN P/N: 26938 NAME: PYRONICS OEM P/N: 2836-C MODELS: UNKNOWN	
CROWN P/N: 26892 NAME: POWERFLAME OEM P/N: X04248 MODELS: UNKNOWN		CROWN P/N: 26940 NAME: PYRONICS OEM P/N: 2826-C MODELS: UNKNOWN	



CROWN P/N: 26941 NAME: PYRONICS OEM P/N: 1984-C2 MODELS: 20APS/2952B01/2952B02		CROWN P/N: 27166 NAME: RAY OIL BURNER OEM P/N: 54110 MODELS: AE 350-700	
CROWN P/N: 26942 NAME: PYRONICS OEM P/N: 1984-C3 MODELS: 2952B01 & 02		CROWN P/N: 27170R NAME: RAY OIL BURNER OEM P/N: 50485 MODELS: PG, PGF, & MODEL 55	
CROWN P/N: 27005 NAME: QUIET AUTOMATIC OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 27172R NAME: RAY OIL BURNER OEM P/N: 51700 MODELS: P BURNERS	
CROWN P/N: 27030 NAME: QUIET AUTOMATIC OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 27250 NAME: ROSOE OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 27040 NAME: QUIET HEAT OEM P/N: E60601 MODELS: C100, 215, 265, 335, & D215, 319		CROWN P/N: 27321 NAME: SHELL HEAD OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 27126 NAME: RAY OIL BURNER OEM P/N: 8214-1 MODELS: UNKNOWN		CROWN P/N: 27324 NAME: SHELL HEAD OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 27132 NAME: RAY OIL BURNER OEM P/N: 8234-1 MODELS: 0-8 BOTTLED GAS		CROWN P/N: 27340 NAME: SHELL HEAD OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 27140 NAME: RAY OIL BURNER OEM P/N: 51276-1 MODELS: JPE BURNER		CROWN P/N: 27342 NAME: SHELL HEAD OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 27145 NAME: RAY OIL BURNER OEM P/N: 51703-1 MODELS: P BURNER		CROWN P/N: 27353 NAME: SHENANDOAH OEM P/N: 10155320 & 40 MODELS: WO-F	



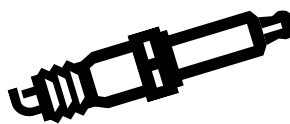
CROWN P/N: 27380 NAME: SILENT GLOW OEM P/N: 36200 MODELS: UNKNOWN		CROWN P/N: 27493 NAME: SUNRAY OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 27384 NAME: SILENT GLOW OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 27498 NAME: SUNRAY OEM P/N: E40351 MODELS: HC, PHC, R, MR, PR / PMR 863 & 9833	
CROWN P/N: 27386 NAME: SILENT GLOW OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 27500 NAME: SUNRAY OEM P/N: E40393 MODELS: DC, GC, LC, GE, & PGC	
CROWN P/N: 27388 NAME: SILENT GLOW OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 27516 NAME: SUNRAY OEM P/N: E41211 MODELS: SHELL CONVERSION KIT	
CROWN P/N: 27451 NAME: STEWART WARNER OEM P/N: 735062 MODELS: UNKNOWN		CROWN P/N: 27518 NAME: SUNRAY OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 27452 NAME: STEWART WARNER OEM P/N: 6A-170054 MODELS: UNKNOWN		CROWN P/N: 27520 NAME: UNKNOWN OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 27480 NAME: SUNRAY OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 27522 NAME: SUNRAY OEM P/N: EA46142-2 & 3 MODELS: OE-1 BURNER	
CROWN P/N: 27490 NAME: SUNRAY OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 27534 NAME: SUPERIOR BOILER OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 27492 NAME: SUNRAY OEM P/N: E40491 MODELS: ICA, D2, D3 & G		CROWN P/N: 27536 NAME: SUPERIOR BOILER OEM P/N: UNKNOWN MODELS: UNKNOWN	



CROWN P/N: 27700 NAME: THARRINGTON OEM P/N: SA12823 MODELS: UNKNOWN		CROWN P/N: 27891 NAME: VAN DAM OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 27729 NAME: THOMAS M. OEM P/N: UNKNOWN MODELS: UNKNOWN XX768 = 27729 WITH 1/4" TIP		CROWN P/N: 28020 NAME: WAYNE OEM P/N: 12353A MODELS: MODEL E	
CROWN P/N: 27731 NAME: THOMAS M. OEM P/N: UNKNOWN MODELS: UNKNOWN XX769 = 27731 WITH 1/4" TIP		CROWN P/N: 28022 NAME: WAYNE OEM P/N: UNKNOWN MODELS: EH, HSR, & MSR W/BUSS BAR P/N: 27993 STEM ONLY P/N: 12550	
CROWN P/N: 27783 NAME: TODD OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 28023 NAME: WAYNE OEM P/N: 102831001 & 1000 MODELS: UNKNOWN	
CROWN P/N: 27785 NAME: TODD OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 28024 NAME: WAYNE OEM P/N: UNKNOWN MODELS: EE, ER, ERA, EHASR, OE, OEA, M & MH STEM ONLY P/N: 13163	
CROWN P/N: 27788 NAME: TODD OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 28026 NAME: WAYNE OEM P/N: 13452 & 51 MODELS: M-3' - 3 1/2" AT	
CROWN P/N: 27789 NAME: TODD OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 28027 NAME: WAYNE OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 27825 NAME: TORRID HEAT OEM P/N: J-6018 MODELS: UNKNOWN		CROWN P/N: 28028 NAME: WAYNE OEM P/N: 12162-A MODELS: UNKNOWN	
CROWN P/N: 27870 NAME: UNION CHILL OEM P/N: DFA-300 MODELS: ULTRAMATIC 300 & 600		CROWN P/N: 28037 NAME: WAYNE OEM P/N: 21684 MODELS: BLUE ANGEL HS WO/BUSS BAR: 28039	



CROWN P/N: 28038 NAME: WAYNE OEM P/N: 21684 MODELS: BLUE ANGEL HS - HEAVY TIP		CROWN P/N: 28302 NAME: YORK SHIPLEY OEM P/N: DBA-7303 MODELS: UNKNOWN	
CROWN P/N: 28039 NAME: WAYNE OEM P/N: 21684 MODELS: BLUE ANGEL HS WITHOUT BUSS BAR		CROWN P/N: 28304 NAME: YORK SHIPLEY OEM P/N: UNKNOWN MODELS: FOR DOMESTIC BURNERS	
CROWN P/N: 28040 NAME: WAYNE OEM P/N: 13934 & 13933 MODELS: EH PRESSURE WASHER		CROWN P/N: 28312 NAME: YORK SHIPLEY OEM P/N: 102841000 MODELS: FOR INDUSTRIAL BOILERS	
CROWN P/N: 28045 NAME: WAYNE OEM P/N: 62390-002 MODELS: HSG SENSOR		CROWN P/N: 28314 NAME: YORK SHIPLEY OEM P/N: UNKNOWN MODELS: UNKNOWN	
CROWN P/N: 28046 NAME: WAYNE OEM P/N: UNKNOWN MODELS: UNKNOWN		CROWN P/N: 28316 NAME: YORK SHIPLEY OEM P/N: N-72074 MODELS: FOR INDUSTRIAL BOILERS	
CROWN P/N: 28047 NAME: WAYNE OEM P/N: 62391-002 MODELS: HSG PROBE		CROWN P/N: 28324 NAME: YORK SHIPLEY OEM P/N: N-72970 MODELS: FOR INDUSTRIAL BOILERS	
CROWN P/N: 100989-061 NAME: WAYNE OEM P/N: UNKNOWN MODELS: BLUE ANGEL HS ONE BLOCK STYLE. TRIM BB IN FIELD TO FIT AIR TUBE LENGTHS.		CROWN P/N: 28330 NAME: YORK SHIPLEY OEM P/N: 157313 MODELS: UNKNOWN	
CROWN P/N: 28084 NAME: WEBSTER ENG. OEM P/N: 220029 MODELS: F / JB #1 & #2 BURNERS		CROWN P/N: 28332 NAME: YORK SHIPLEY OEM P/N: N-152201 MODELS: FV BURNERS	
CROWN P/N: 28091-01 NAME: WEIL-McLAIN OEM P/N: 644-600-048 MODELS: QB180 & 300. LEADS SOLD SEPARATELY UNDER P/N:70043-02 OR TUNE-UP KIT #28091K		CROWN P/N: 17412 NAME: SCULLY SPIDER OEM P/N: UNKNOWN MODELS: UNKNOWN	



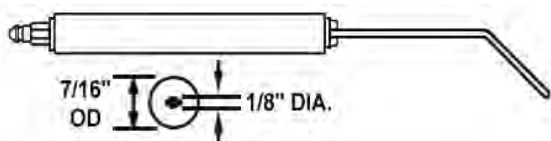
CROWN P/N: 17413 NAME: SPIDER INSULATOR OEM P/N: UNKNOWN MODELS: UNKNOWN			
CROWN P/N: 17415 NAME: SPIDER INSULATOR OEM P/N: UNKNOWN MODELS: UNKNOWN			
CROWN P/N: 17794 NAME: SPIDER INSULATOR OEM P/N: UNKNOWN MODELS: UNKNOWN			
CROWN P/N: 17795 NAME: SPIDER INSULATOR OEM P/N: UNKNOWN MODELS: UNKNOWN			



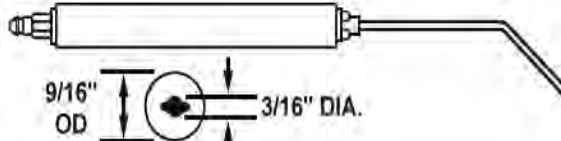
Manufacturers' Representatives & Territories

Firm Name	Contact	Territory
Combustion Controls - 2121 South Priest Drive - Tempe, AZ 85282 Suite 105 Tel#: (480) 966-4136 / Fax#: (480) 966-1285	Mr. Dalton "Sparkie"	Arizona
Combustion Systems - 4001 Ellison N.E. - Albuquerque, NM 87109 Tel#: (505) 344-4636 / Fax#: (505) 344-9310	Mr. Joe Paxson	New Mexico
Distributor Service Inc. - 6901 Herman Rd. - Syracuse, NY 13209 Tel#: (315) 635-7107 / Fax#: (315) 635-6184	Mr. Don Knuth, & Mr. Doug	Upstate New York
ETC Sales Company - P.O. Box 235 - Paoli, PA 19301 Tel#: (610)296-3527 / Fax#: (610)640-4271 E-mail address: monsgwen@msn.com	Mr. Mons King	Delaware / Eastern Pennsylvania / Maryland / Virginia / Washington
Frederick Geraghty Mfg. Reps - 69 Milk St. - Westborough, MA 01581 Tel#: (508) 366-1063 / Fax#: (508) 366-7775	Mr. Kevin Geraghty	Connecticut / Maine / Massachu- setts / New Hampshire / Rhode Island
Harbour Sales - 131 Bellaire Road - Massapequa, NY 11758 Tel#: (516) 541-9151 / Fax#: (516) 541-8510	Mr. Clint Goodwin	Long Island / NYC / North New Jersey & Westchester County
KLYM Inc. - 231 North Wilke Road - Palatine, IL 60067 Tel#: (847) 705-8877 / Fax#: (847) 705-1011	Mr. Steve Klym	Eastern Wisconsin
Rhodes & Stafford Inc. - 2000 N. Church St. - Greensboro, NC 27405 Tel#: (336) 273-0505 / Fax#: (336) 273-5009	Mr. Bill Rhodes, & Mr Rick	North Carolina / South Carolina & Eastern Tennessee
Sales Engineers - 12909 Pioneer Trail - Eden Prairie, MN 55347 Tel#: (612) 944-0773 / Fax#: (612) 944-1073	Mr. Mike Dungan	Minnesota / North Dakota / South Dakota & Western Wisconsin
Shurilla Associates - 3235 Lighting Court - New Lenox, IL 60451 Tel#: (815) 462-3595 / Fax#: (815) 462-3596 E-mail address: rashur@aol.com	Mr. Bob Shurilla	Illinois & Indiana (Lake County and Porter County)
Thermo Tech Sales - 4111 Crawford Rd. - Fort Wayne, IN 46845 Tel#: (219) 338-0868 / Fax#: (219) 338-0457 E-mail address: ckolbthermo@cs.com	Mr. Bill Lord & Mr. Carl Kolb	Indiana / Kentucky / Ohio / Western Pennsylvania & West Virginia
William S. Sorsby - P.O. Box 2312 - Dunnellon, FL 34430 Tel#: (352) 489-2367 / Fax#: NONE	Mr. William S. Sorsby	Florida
Canadian Representative		
Alltemp Products Co. Ltd. - 827 Brock Road South Pickering, Ontario - Canada L1W-3J2 E-mail address: sales@rotom.com Website: alltemp.ca Tel#: (905) 831-3311 / Fax#: (905) 831-1864	Mr. Richard Chalmers	Canadian stocking distributor
Worldwide Representative		
Alex Bauer and Company - 2429 Vauxhall Road - Union, NJ 07083 E-mail address: export@cs123.com Website: alexbauer.com Tel#: (908) 964-4042 / Fax#: (908) 688-6668	Mr. G. R. Leiz	Worldwide

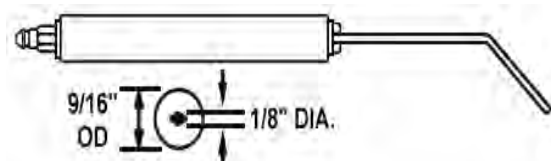
Rep List Revised on 9/30/05



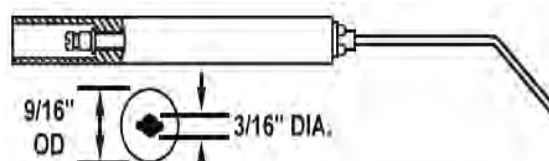
ELECTRODE PART NUMBER	INSULATOR ONLY P/N	LENGTH OF INSULATOR	TYPE OF TIP
01033	11033	3 3/4"	
01040	11040	4"	
01041	11041	4 1/4"	HEAVY
01042	11042	4 1/2"	1/8"
01043	11043	4 3/4"	DIA.
01050	11050	5"	
01060	11060	6"	



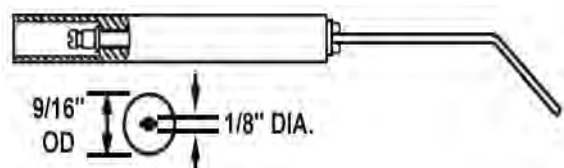
ELECTRODE PART NUMBER	INSULATOR ONLY P/N	LENGTH OF INSULATOR	TYPE OF TIP
05030	15030	3"	
05033	15033	3 3/4"	
05040	15040	4"	LIGHT
05042	15042	4 1/2"	3/32"
05050	15050	5"	DIA.
05052	15052	5 1/2"	
05060	15060	6"	
05070	15070	7"	



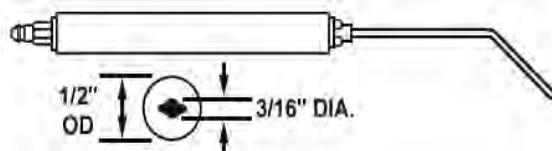
ELECTRODE PART NUMBER	INSULATOR ONLY P/N	LENGTH OF INSULATOR	TYPE OF TIP
02040	12040	4"	
02042	12042	4 1/2"	
02050	12050	5"	HEAVY
02052	12052	5 1/2"	1/8"
02060	12060	6"	DIA.
02070	12070	7"	
02080	12080	8"	
02090	12090	9"	



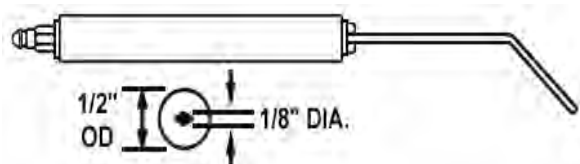
ELECTRODE PART NUMBER	INSULATOR ONLY P/N	LENGTH OF INSULATOR	TYPE OF TIP
06040	16040	4"	
06042	16042	4 1/2"	LIGHT
06050	16050	5"	3/32"
06060	16060	6"	DIA.
06070	16070	7"	



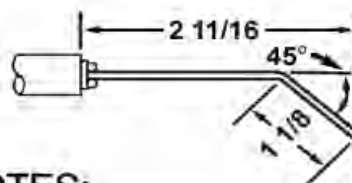
ELECTRODE PART NUMBER	INSULATOR ONLY P/N	LENGTH OF INSULATOR	TYPE OF TIP
03040	13040	4"	HEAVY
03050	13050	5"	1/8"
03060	13060	6"	DIA.



ELECTRODE PART NUMBER	INSULATOR ONLY P/N	LENGTH OF INSULATOR	TYPE OF TIP
09040	19040	4"	
09042	19042	4 1/2"	LIGHT
09050	19050	5"	3/32"
09060	19060	6"	DIA.
09070	19070	7"	
09080	19080	8"	



ELECTRODE PART NUMBER	INSULATOR ONLY P/N	LENGTH OF INSULATOR	TYPE OF TIP
04040	14040	4"	
04042	14042	4 1/2"	HEAVY
04050	14050	5"	1/8"
04052	14052	5 1/2"	DIA.
04060	14060	6"	



NOTES:

Longer insulator lengths available upon request. Tips can be supplied straight and in standard length of 3". Longer lengths can be supplied upon request. Add the letter S, after the electrode part number, when ordering the straight electrode.

Insulators packaged 2, 10 or 25 to a box. Add a — (dash) and the number 2, 10 or 25 to insulator P/N when ordering insulators.

Part Number: 100989K

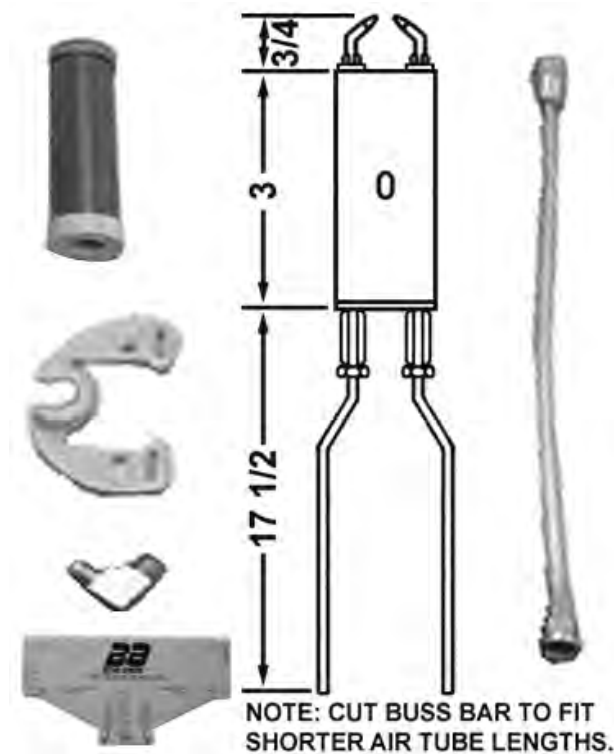
Description: Wayne electrode tune up kit

Packaging: Poly bag

Includes

- 1 - Electrode assembly (100989-061)
- 1 - Setting gauge (14200-002)
- 1 - Oil line 3/16" X 8" L (14452)
- 1 - Coupler w/end caps (100386)
- 1 - Elbow (13494)
- 1 - Buss bar support (13276)

For use on Blue Angel Plus burner model HS



Part Number: 28091K

Description: Weil-McLain electrode tune up kit

Packaging: Poly bag hang card

Includes

- 1 - Electrode assembly (644-600-048)
- 2 - Wire ignition leads (644-000-043)
- 1 - Oil line - straight 3/16" X 11" (40362B)
- 1 - Coupler with end caps (644-700-186)
- 1 - Instruction sheet

For use on burner models QB-180 & 300



Part Number: 31156K

Description: Wayne electrode tune up kit

Packaging: Poly bag hang card

Includes

- 2 - Electrode assemblies (13286)
- 2 - Electrode Stems (12550)
- 2 - Buss bars 8" (10004-015)
- 2 - Insulator bushings (12408)
- 1 - Oil line 3/16" X 8" L (14452)
- 1 - Coupler w/end caps (13279)
- 1 - Setting gauge (14200)
- 1 - Elbow (13494)
- 1 - Buss bar support (13276)
- 1 - Instruction sheet

For use on burner models M, MSR, MH, ERA, EH, EHA, EHASR, OE, & OEA.



Part Number: 31157K

Description: Wayne electrode tune up kit

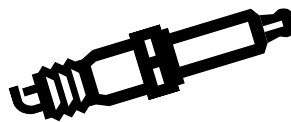
Packaging: Poly bag hang card

Includes

- 1 - Electrode assembly w/buss bar (21666-013)
- 1 - Electrode assembly w/buss bar (21667-013)
- 1 - Setting gauge (14200-002)
- 1 - Oil line 3/16" X 8" L (14452)
- 1 - Coupler w/end caps (100386)
- 1 - Elbow (13494)
- 1 - Buss bar support (13276)
- 1 - Instruction sheet

For use on Blue Angel burner model HS





Part Number: 40261

Description: Adams/Beckett electrode kit

Packaging: Poly bag with label

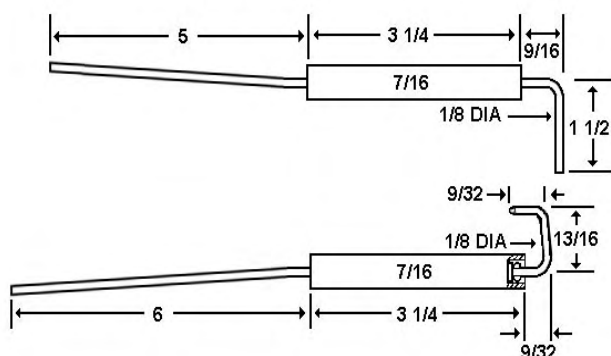
Includes

1 - 20070 Electrode assembly

1 - 20417 Flame rod assembly

For use on G2 gas burners.

Adams Mfg. Electrode Set P/N: 40261
Used in Beckett models G2 gas burners



Part Number: 40263

Description: Powerflame electrode kit

Packaging: Poly bag with label

Includes

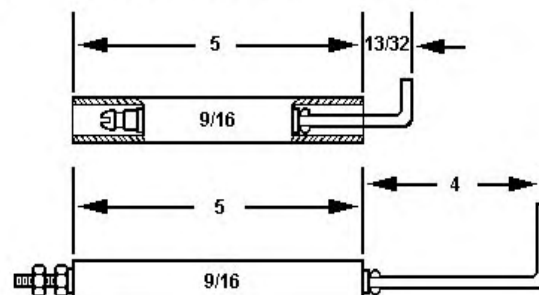
1 - 26887 Electrode assembly

1 - 26894 Flame rod assembly

Used on Columbia boilers.



Power Flame Electrode Set P/N: 40263
Used in burner models C, J, & CG



Part Number: 40262

Description: Patterson-Kelley electrode kit

Packaging: Poly bag with label

Includes

1 - 26796 Electrode assembly

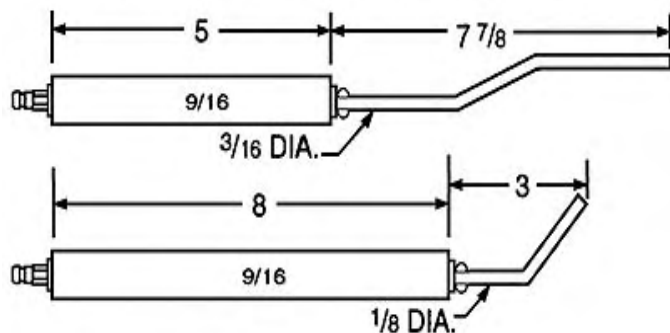
1 - 26798 Flame rod assembly

For use on burner models

N-700 thru N-2000



Patterson-Kelley Electrode Set P/N: 40262
Used in burner models N-700 thru N-2000



Part Number: 40264

Description: Wayne electrode kit

Packaging: Poly bag with label

Includes

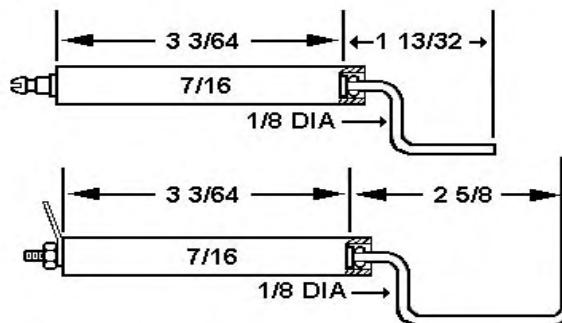
1 - 28045 Flame rod assembly

1 - 28047 Electrode assembly

For use on burner models HSG200 & 400



Wayne Electrode Set P/N: 40264
Used in burner models HSG200 & HSG400



Part Number: 40275

Description: The updated "PRO" ignition kit

Packaging: Durable plastic carrying case

Includes

This kit contains a variety of ignition terminals, standard electrodes, popular OEM electrodes, and other necessary accessories to get burners up and running.

Don't leave the shop without it!

Terminals and Hardware

Quantity	Contents
10 ea.	50000 Cage terminal
10 ea.	50100 Spring terminal
10 ea.	50200 Ring terminal
10 ea.	50450 Right angle cage terminal
10 ea.	50600 Stud ferrule
10 ea.	50760 Hex base stud 6-32 thread.
10 ea.	50700 Hex base stud 10-32 thread.
5 ea.	50860 Hollow stud 6-32 thread.
5 ea.	50800 Hollow stud 10-32 thread.
10 ea.	50900 Eyelet
10 ea.	60018 Flat hex nut 6-32 thread.
10 ea.	60022 Flat hex nut 10-32 thread.

Special OEM Electrodes

Quantity	Contents
2 ea.	20410 Beckett
2 ea.	20780 Carlin
2 ea.	28022 Wayne

Special Tools

Quantity	Contents
1 ea.	40430 Igniter tip bending set
1 ea.	40445 Electrode setting gauge

Buss Bars

Quantity	Contents
2 ea.	40315 Round buss bar - 12" long
2 ea.	40320 Flat buss bar - 12" long



Standard Electrodes

Quantity	Contents
4 ea.	01041
2 ea.	03050
2 ea.	04040
4 ea.	05040
4 ea.	05050
2 ea.	05060
2 ea.	06040
2 ea.	06042
2 ea.	06050
2 ea.	06060

Test Jumpers, Cable, and Chart

Quantity	Contents
1 ea.	40630 Set of booted test leads
1 ea.	5 ft. length GTO-15 ignition cable
1 ea.	Trouble shooting chart

Part Number: 40277

Description: "MECHANIC" electrode roll-up kit

Packaging: Durable plastic roll-up pouch

Includes

This kit includes 8 different standard electrodes, and 2 - O.E.M. electrode assemblies designs. It also contains 10 of the most universal insulators in the oil heat industry to restore service due to electrode or insulator failure.

Contains the following parts:

Standard electrodes

2 ea. 05040
 2 ea. 05050
 2 ea. 05060
 2 ea. 06050

Insulators

2 ea. 11041
 2 ea. 15040
 2 ea. 15050
 2 ea. 15060
 2 ea. 16050

O.E.M. electrode

2 ea. 20411 Beckett
 2 ea. 20418B 6" buss bar



Part Number: 40279

Description: "SERVICEMAN'S" electrode kit

Packaging: Durable plastic case

Includes

This kit includes 16 different standard electrodes, and 4 - O.E.M. electrode assemblies and 20 of the most popular insulators in the industry.

Contains the following parts:

Standard electrodes

4 ea. 05040
 4 ea. 05050
 4 ea. 05060
 4 ea. 06050

Insulators

4 ea. 11041
 4 ea. 15040
 4 ea. 15050
 4 ea. 15060
 4 ea. 16050

O.E.M. Electrodes

4 ea. 20411 Beckett
 4 ea. 20418B 6" buss bar



Part Number: 40278

Description: "MASTER" electrode kit

Packaging: Durable plastic roll-up pouch

Includes: This kit includes 20 different standard electrodes to provide A variety that will help any master mechanic to restore service due to electrode failure.

Contains the following parts:

Standard electrodes

2 ea. 01041
 2 ea. 01060
 2 ea. 02040
 2 ea. 02050
 2 ea. 02060

Standard electrodes

2 ea. 04040 w/hex nut
 2 ea. 04040
 2 ea. 05040
 2 ea. 05050
 2 ea. 05060



Part Number: 40282

Description: Carlin electrode kit

Packaging: Durable plastic roll-up pouch

Includes

This kit includes 22 of the most popular Carlin replacement electrodes in the field today. These O.E.M. replacements make a perfect match every time!

Contains the following parts:

O.E.M. electrode(s)

2 ea. 20710 2 ea. 20725 2 ea. 20765
 2 ea. 20720 2 ea. 20730 2 ea. 20770
 2 ea. 20715 2 ea. 20760 6 ea. 20780



Part Number: 40283

Description: R. W. Beckett electrode kit

Packaging: Durable plastic roll-up pouch

Includes

This kit includes 18 of the most popular R. W. Beckett replacement electrodes. A perfect match every time!

Contains the following parts:



O.E.M. electrode(s)

4 ea. 20410 2 ea. 20413 2 ea. 20437 2 ea. 20415
 2 ea. 20411 2 ea. 20414 2 ea. 20441 2 ea. 20420

Part Number: 5780C

Description: Beckett electrode tune up kit

Packaging: Poly bagged & tagged

Includes: 2 - Electrode assemblies

2 - Bullet connector studs

2 - Extension rods

2 - 10/32 Hex nuts

1 - Instruction sheet



For use on burner models AFG, AF, AR, SF, & SR burners up to 9" air tube combinations.

(Setting gauge sold separately, order P/N: 40443)

Part Number: 40284

Description: Wayne electrode kit

Packaging: Durable plastic roll-up pouch

Includes

This kit includes 18 of the most popular Wayne burner replacement electrodes.

A perfect match every time!

Contains the following parts:



O.E.M. electrode(s)

2 ea. 28020 2 ea. 28023 2 ea. 28026 2 ea. 28037
 4 ea. 28022 4 ea. 28024 2 ea. 28028

Part Number: 5781

Description: Beckett electrode tune up kit

Packaging: Heat sealed poly bag

Includes: 2 - Electrode assemblies

2 - Bullet connector studs

2 - Spring connectors

2 - Extension rods

2 - 10/32 Hex nuts

1 - Instruction sheet



For use on burner models A & S burners up to 9" air tube combinations.

Part Number: 40290

Description: Electrode repair kit

Packaging: Durable plastic carrying case

Includes

This kit contains a variety of replacement insulators, rods and accessories to custom make your own electrode's for emergency and long term standard upgrades. A must for any, "NO HEAT", service call.



Qty.

Contents

6 ea. 11041 Glazed insulator - 7/16" dia. x 4 1/4" long
 6 ea. 15050 Glazed insulator - 9/16" dia. x 5" long
 6 ea. 16050 Glazed insulator - 9/16" dia. x 5" long w/counterbore
 3 ea. Package of assorted fasteners, nuts, and washers
 2 ea. 40305 Electrode rod pack - 10-32 thread.
 1 ea. 40300 Electrode rod pack - 6-32 thread.
 1 ea. 40400 Terminal crimping tool / electrode rod cutter

Part Number: 5782C

Description: Beckett electrode tune up kit

Packaging: Poly bagged & tagged

Includes: 2 - Electrode assemblies

2 - Support insulators

2 - Bullet connector studs

2 - Extension rods

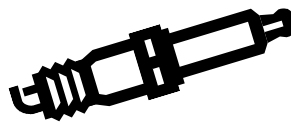
2 - 10/32 Hex nuts

1 - Instruction sheet



For use on burner models AFG, AF, AR, SF, & SR burners over 9" air tube combinations.

(Setting gauge sold separately, order P/N: 40443)



Part Number: 5783

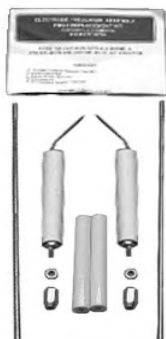
Description: Beckett electrode tune up kit

Packaging: Heat sealed poly bag

Includes

- 2 - Electrode assemblies
- 2 - Support insulators
- 2 - Bullet connector studs
- 2 - Extension rods
- 2 - 10/32 Hex nuts
- 1 - Instruction sheet

For use on burner models A & S burners over 9" air tube combinations.



Part Number: 51346

Description: Beckett electrode assembly

Packaging: Heat sealed poly bag

Includes

- 2 - Electrode assemblies
- 1 - Instruction sheet

For use on burner models CF 800 and CF 500 over 8" air tube combinations.



Part Number: 5940

Description: Beckett electrode assembly

Packaging: Poly bag & tagged

Includes

- 2 - Electrode assemblies
- 2 - Female connector studs
- 2 - Extension rods

For use on burner models MB & MD burners up to 9" air tube combinations.



Part Number: 51484U

Description: Beckett electrode tune up kit

Packaging: Heat sealed poly bag

Includes

- 2 - Electrode assemblies
- 2 - Transformer wires
- 1 - Multi-purpose setting gauge
- 1 - Instruction sheet

For use on burner models AFII-85 and AFII-150 with air tube combination models HLX - HB, HC, HD, and HE up to 9" air tube combinations.



Part Number: 51345

Description: Beckett electrode assembly

Packaging: Heat sealed poly bag

Includes:

- 2 - Electrode assemblies
- 1 - Instruction sheet

For use on burner models CF 800 and CF 500 up to 8" air tube combinations.



Part Number: 578707

Description: Beckett electrode assembly

Packaging: Heat sealed poly bag

Includes

- 2 - Electrode assemblies (EA28406C)

For use on a variety of private name brand burner models. Used in models AFG, AF, SF, AF-90 series burners.





Part Number: 578723

Description: Beckett electrode assembly

Packaging: Heat sealed poly bag

Includes:

2 - Electrode assemblies (EA15802B)
used on a variety of private name brand
burner models.
Used in models AF, AF-44 series, SF, and
SM burners.



Part Number: 40286K

Description: Carlin electrode tune up kit

Packaging: Poly bag hang card

Includes:

2 - Electrode assemblies
1 - Yellow electrode setting gauge
1 - Red electrode setting gauge
1 - Instruction sheet
1 - KK100 coupler w/end caps
1 - 12" L x 3/16" Dia. copper oil line
For use on burner models 98 - 102, elite,
201 CRD & 301 CRD.



Part Number: 5780K

Description: Beckett electrode tune up kit

Packaging: Poly bag hang card

Includes:

2 - Electrode assemblies w/connectors
2 - Extension rods
2 - 10/32 Hex nuts
1 - Instruction sheet
1 - KK100 coupler w/end caps
1 - 12" L x 3/16" Dia. copper oil line
For use on burner models AF, AR, SF,
& SR burners up to 9" air tube combinations
(Setting gauge sold separately, order P/N: 40443)



Part Number: 5782K

Description: Beckett electrode tune up kit

Packaging: Poly bag hang card

Includes:

2 - Electrode assemblies w/connectors
2 - Secondary support insulators
2 - Extension rods
2 - 10/32 Hex nuts
1 - Instruction sheet
1 - KK100 coupler w/end caps
1 - 12" L x 3/16" Dia. copper oil line
For use on burner models AF, AR, SF,
& SR burners over 9" air tube combinations
(Setting gauge sold separately, order P/N: 40443)





1. Work safely:

Always bring a fire extinguisher with you to the heater location, and always check the combustion chamber for raw fuel!. Do not fire a burner with a loaded chamber. Clean it up first. Better to be safe than sorry.

2. Talk to the customer:

Find out as much as you possibly can about the operating condition of the equipment prior to the service call. Ask if the furnace has been recently serviced, when was the last time it was cleaned, when was the last oil delivery, etc. These types of questions can be valuable clues that may help determine why the equipment failed to operate.

3. Set the room thermostat:

Set for "HEAT," and raise the set point to its maximum setting.

4. Stick the tank:

This may seem like a waste of time (especially if the customer claims that they "just got a delivery the other day."), but it is a good habit to get into. I have wasted many hours over the years trying to get fuel units to pick up oil from empty tanks that were, "filled yesterday."

5. Now you are ready to begin working on the furnace itself:

Turn off the power switch and check the combustion chamber if you have not already done so. Clean up any raw fuel. The presence of raw fuel would be a good indication that there is oil up to the nozzle and that the problem lies somewhere in the ignition system.

If the chamber is dry, feel the supply plenum (on forced air systems) or the water pipes (on boilers). In either case, they will be cold if the system has been down for any length of time. If they are hot to the touch, check to see if the equipment has shut down due to limit opening.

Likely problem areas would be an inoperative blower motor, dirty filters, or perhaps a bad circulator.

6. At this point you have been on the job site for about five minutes and may have already located the problem area:

If not, push the reset button on the primary control or stack switch. Make sure you have your fire extinguisher handy (just in case) and develop the habit of standing clear of the draft regulator and inspection port.

One of three things will happen. The burner motor will start and the burner will fire, the burner motor will start and the burner will not fire, or nothing at all happens.

7. If there is no response when pushing the reset, there is some sort of electrical problem with the equipment:

Use a voltmeter and confirm that there is voltage (usually 120 volts) to the primary control or stack switch. Disconnect the wires from the "T - T" terminals and jumper T to T on the control.

One a primary control, disconnect one of the yellow wires from the cad cell eye. Ambient light, a shorted eye, or a short in the wires from the cad cell will keep the burner from firing.

On stack controls, "step" the contacts by gently pulling and releasing the drive shaft. Try carefully jumping out the cold contacts.

Push the reset button on the burner motor, it may have tripped. At some point either the burner will fire or you will find the problem.

8. If the burner starts, but does not fire, turn it off after 10 seconds of operation:

Allowing the burner to run until the safety trips, may load the chamber with excess oil.

Disconnect the jet line (the line that connects the fuel unit to the nozzle line) from the nozzle line and direct it into a clear container. Take enough oil (several ounces) so you can observe the sample for water or other contamination.

Install an oil pressure gauge in the nozzle line and check the pressure. On most systems the pressure should be set at 100 psi.

9. No oil at the jet line indicates some sort of delivery problem:

Check the coupling and confirm that the fuel unit drive shaft is turning.

Check vacuum. Very high vacuum indicates a restriction (or possibly a very long distance to the tank). No vacuum may indicate an air leak if the tank is below the burner.

Remove the side cover from the pump. Excessive dirt will require that the pump screen is cleaned and the pump may have to be replaced.

10. Good oil delivery at 100 psi and a clean oil sample indicates that the problem is in the oil burner itself:

Check the nozzle, the transformer, and the electrodes. The problem is somewhere in this area.

Conclusion:

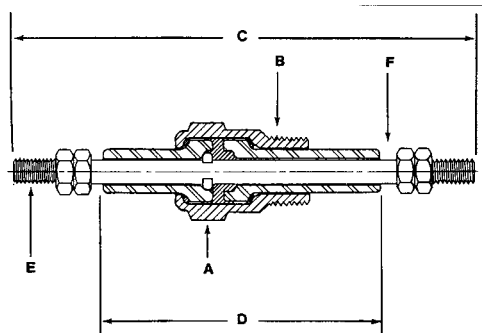
These steps will allow you to work on any oil burner system with confidence. When working on any furnace, boiler, or mechanical system always look for logical procedures to follow that will allow you to quickly eliminate the unlikely areas and get right to the problem.

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Crown Part Number	Thread Size	Crown Part Number	Thread Size
25	14 MM	K97F	18 MM
CJ8	14 MM	K98F	OBSOLETE
D23	18 MM	RJ12YC	14 MM
D89D	18 MM	RL87YC	14 MM
D9	18 MM	RN13LYC	14 MM
ED-89D	18 MM	UD16	18 MM
F-121501	14 MM	UY6	10 MM
F-121503	14 MM	W18	7/8" - 18
H-14-Y	14 MM	W95D	7/8" - 18
J12YC	14 MM	Z6	10 MM
J99	14 MM	ZPY	10 MM

NOTE: K97F replaces K98F



Electric Feedthroughs

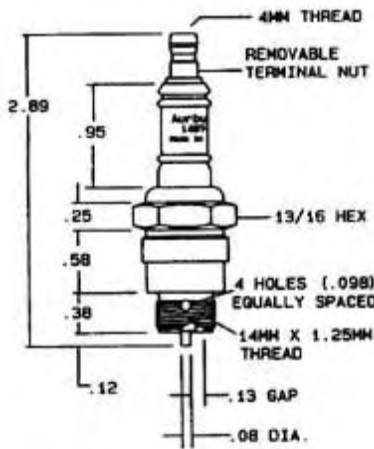
Auburn electric feedthroughs are used in oil and gas filled transformers and switching equipment.

Additional applications include terminals and overloads in hermetic air conditioning and refrigeration compressors, explosion proof electric motors, generators, autoclaves, and centrifugal and submersible pumps.

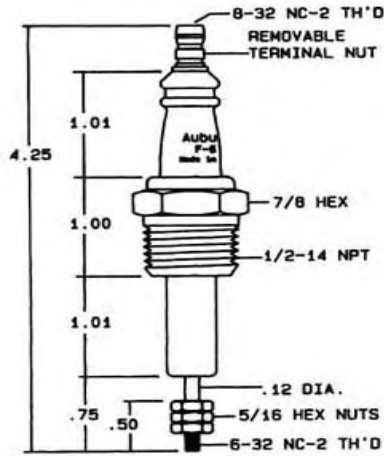
They are compact and their one piece design assures positive electrical and leak-proof connection into the pressure vessel.

AUBURN ELECTRIC FEED THROUGHS

Part Number	Dimensions						Conductor Material	Current Rating	Flash Over	Max. Operating Temperature
	A	B	C	D	E	F				
F-140	13/16" S/S	3/8" - 18	3.57	2.33	10 - 24	3/16" DIA	KOVAR	30 AMPS	8 KV	600° F
F-150	13/16" S/S	5/8" - 24	3.57	2.33	10 - 24	3/16" DIA	KOVAR	30 AMPS	8 KV	600° F
F-200-1H	13/16" CAD	3/8" - 18	4.45	2.71	1/4" - 20	1/4" DIA	BRASS	105 AMPS	8 KV	200° F
F-210-1H	13/16" CAD	3/8" - 18	4.45	2.71	1/4" - 20	1/4" DIA	COPPER	175 AMPS	8 KV	200° F
F-220-1	13/16" CAD	5/8" - 18	4.45	2.71	1/4" - 20	1/4" DIA	BRASS	105 AMPS	8 KV	200° F
F-230-1H	13/16" CAD	5/8" - 18	4.45	2.71	1/4" - 20	1/4" DIA	COPPER	175 AMPS	8 KV	200° F
F-220-1B	13/16" CAD	5/8" - 18	4.20	2.71	1/4" - 20	1/4" DIA	BRASS	105 AMPS	8 KV	200° F
F-240LLH	7/8" CAD	1/2" - 14	5.17	3.67	1/4" - 20	1/4" DIA	BRASS	105 AMPS	14 KV	200° F
F-250LLH	7/8" CAD	1/2" - 14	5.17	3.67	1/4" - 20	1/4" DIA	COPPER	175 AMPS	14 KV	200° F
F-310-H	1-1/8" CAD	3/4" - 14	5.23	3.23	3/8" - 16	3/8" DIA	COPPER	275 AMPS	12 KV	200° F
F-610	1-3/8" CAD	1" - 11 1/2	5.91	3.17	5/8" - 11	5/8" DIA	COPPER	750 AMPS	8 KV	200° F
F-630	1-3/8" CAD	1" - 11 1/2	7.68	3.67	5/8" - 11	5/8" DIA	COPPER	750 AMPS	10 KV	200° F
F-670	1-3/8" CAD	1" - 11 1/2	6.92	3.67	5/8" - 11	5/8" DIA	COPPER	750 AMPS	10 KV	200° F
F-690	1-3/8" CAD	1" - 11 1/2	8.29	3.17	5/8" - 11	5/8" DIA	COPPER	750 AMPS	8 KV	200° F

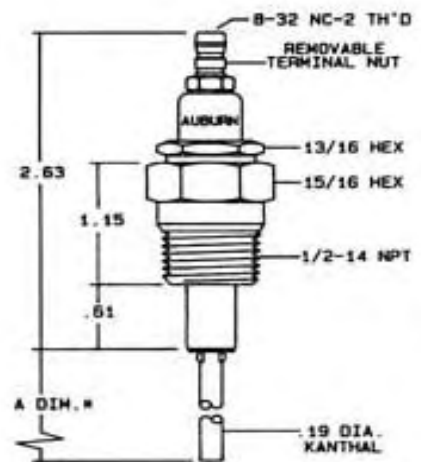


149T-1 .090



F-68

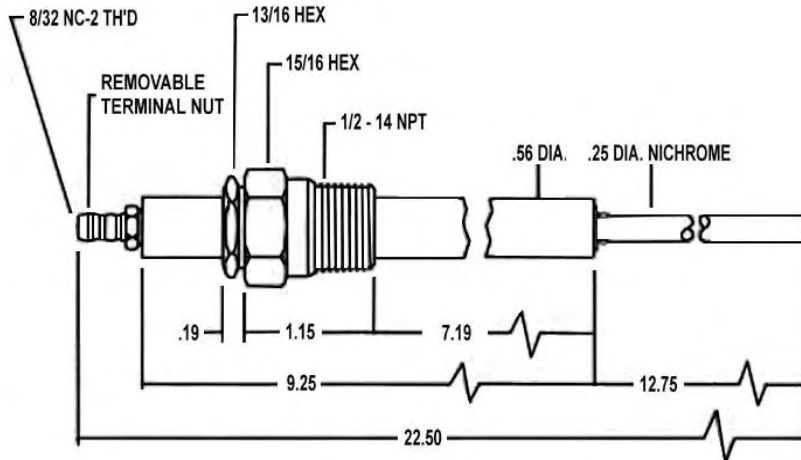
NOTE: Crown generic available: CA250



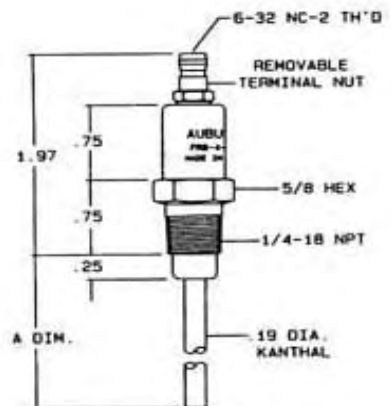
FRS-2	
1/2 NPT MOUNTING TH'D	
CATALOG NO.	A-DIM*
FRS-2-6	6"
FRS-2-12	12"
FRS-2-18	18"
FRS-2-24	24"

FRS-2 SERIES

NOTE: Crown generic available:
CA390 thru CA393



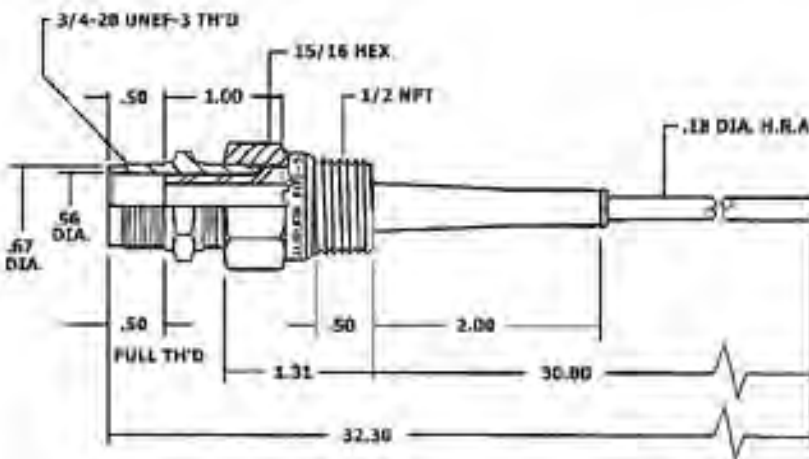
FRS-3 SERIES



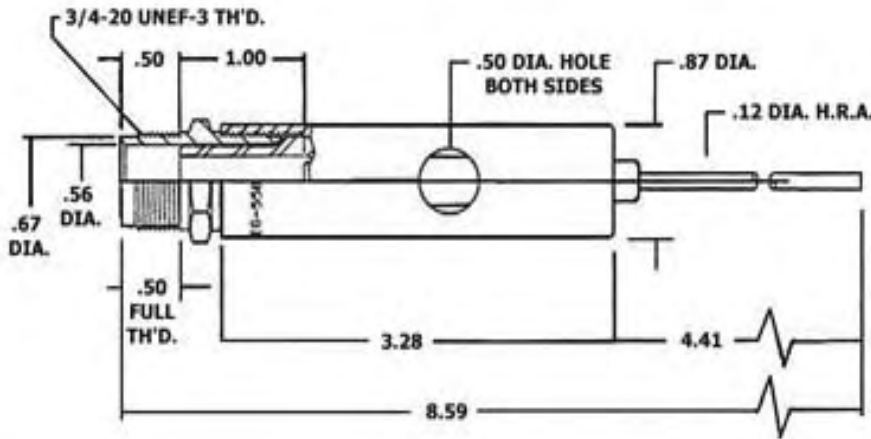
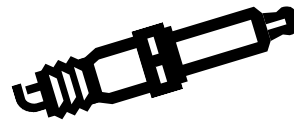
FRS-4	
1/4 NPT MOUNTING TH'D	
CATALOG NO.	A-DIM*
FRS-4-4	4"
FRS-4-6	6"
FRS-4-12	12"
FRS-4-18	18"
FRS-4-24	24"

FRS-4 SERIES

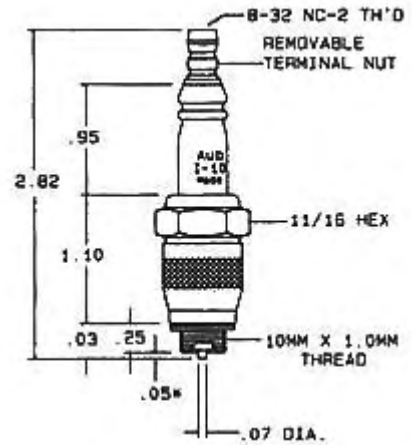
NOTE: Crown generic available:
CA430 thru CA441



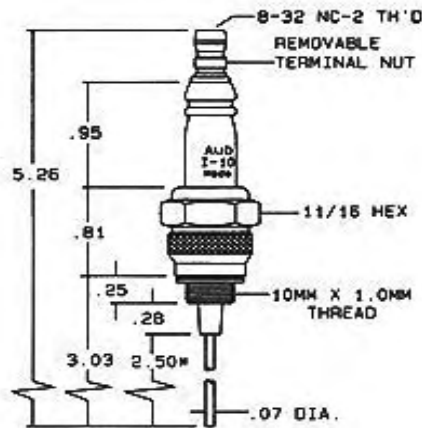
FRS-5 SERIES



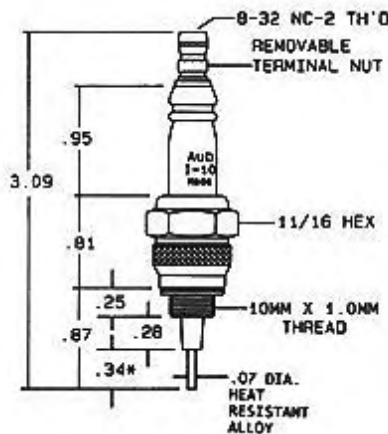
FRS-6 SERIES



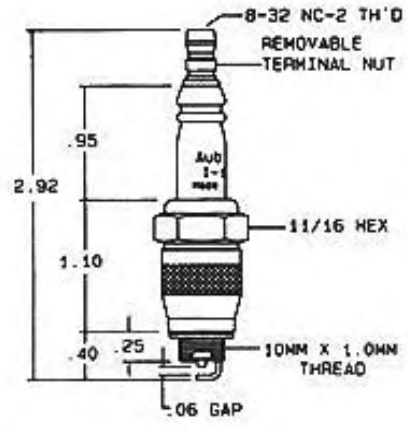
I-10-9



I-10-25

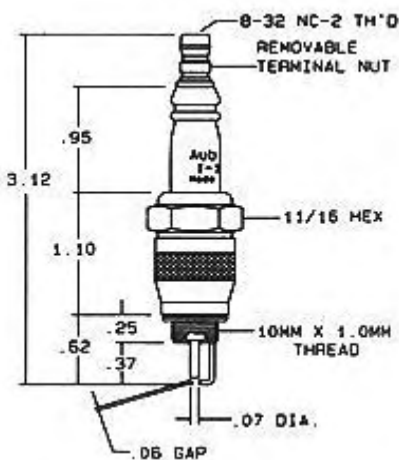


I-10-30



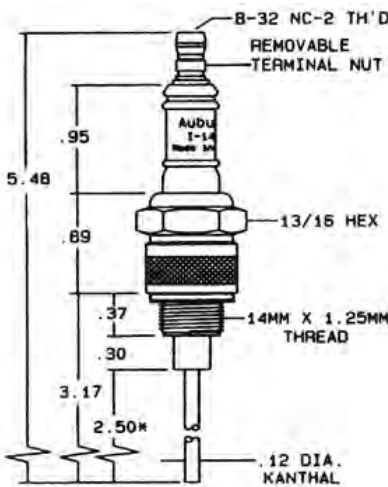
I-101

NOTE: Crown generic available: CA500



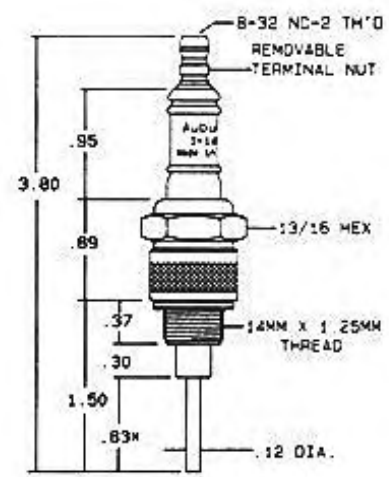
I-102

NOTE: Crown generic available: CA502

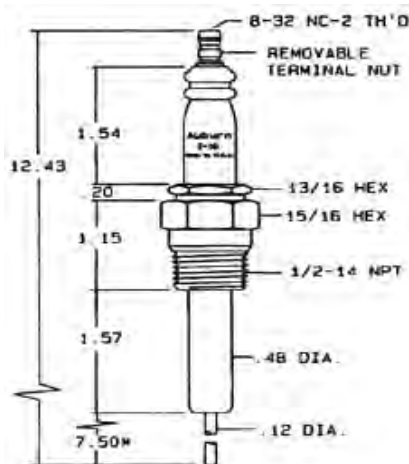


I-143

NOTE: Crown generic available: CA503

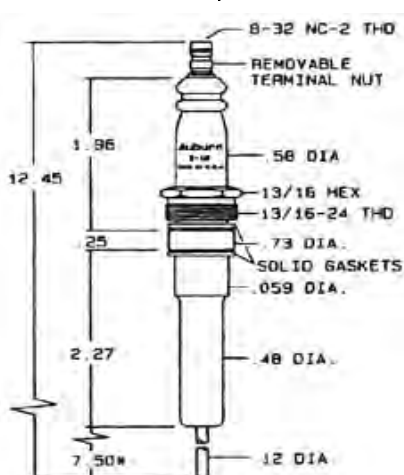


I-144



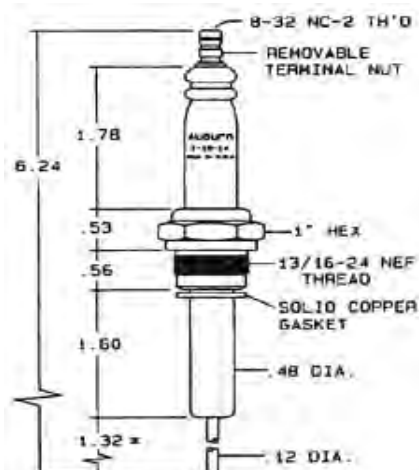
I-18

NOTE: Crown generic available: CA200



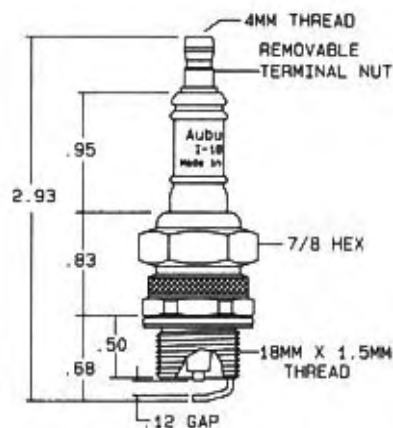
I-18 INSULATOR

NOTE: Crown generic available: CA220

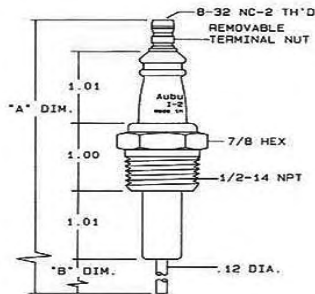


I-18-14

NOTE: Crown generic available: CA210



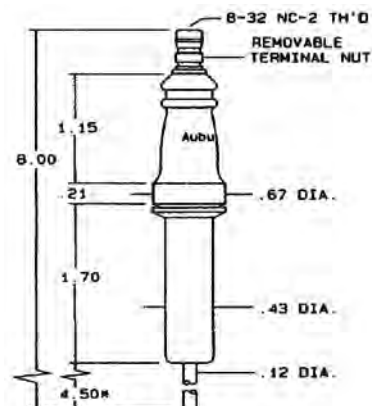
I-181



CAT. NO.	"A" DIM.	"B" DIM.
I-2	8.00 REF.	4.50
I-2-1	15.50 REF.	12.00
I-2-2	27.50 REF.	24.00

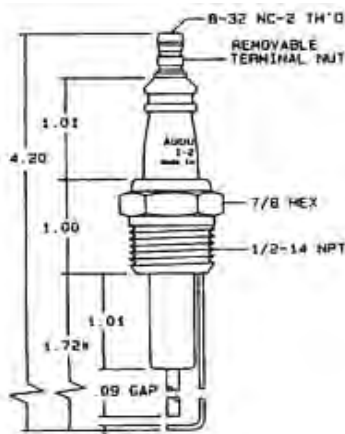
I-2 SERIES

NOTE: Crown generic available: CA100 thru CA102

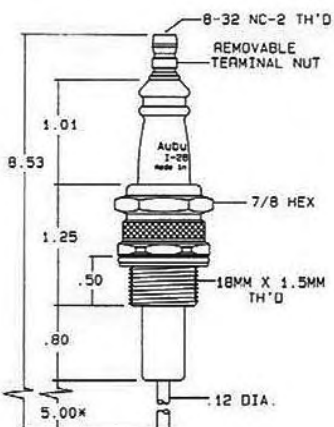


I-2 INSULATOR

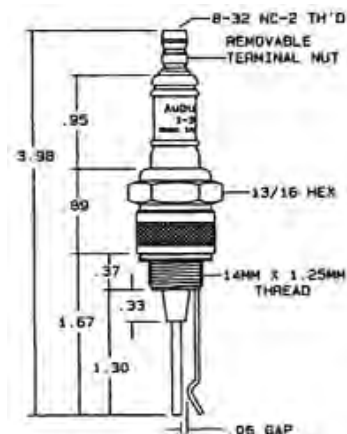
NOTE: Crown generic available: CA102



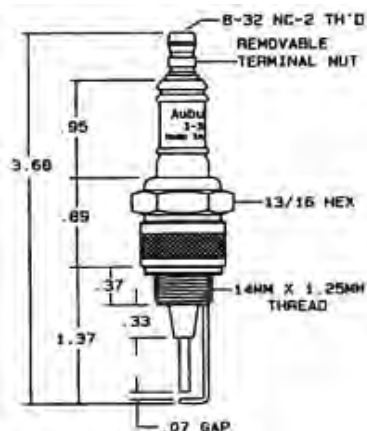
I-25



I-28

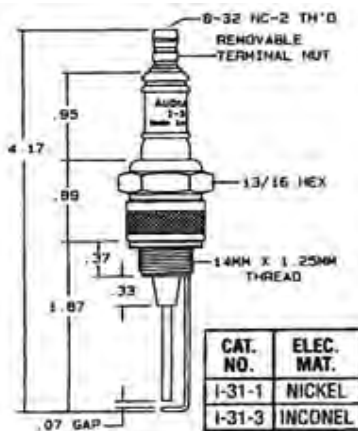


I-3



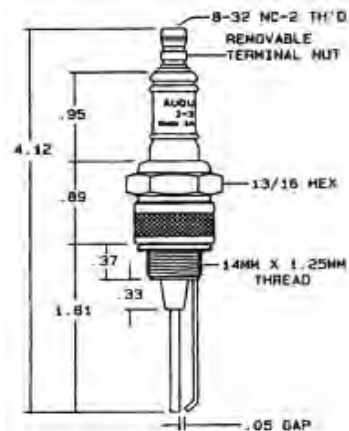
I-31

NOTE: Crown generic available: CA505



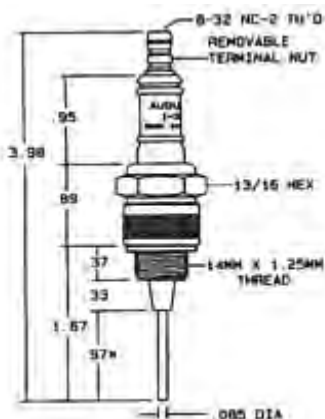
I-31-1 & I-31-3

NOTE: Crown generic available for I-31-1: CA506



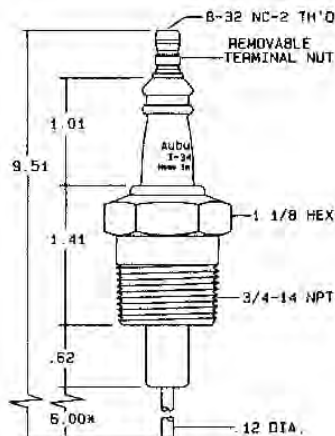
I-32

NOTE: Crown generic available: CA515



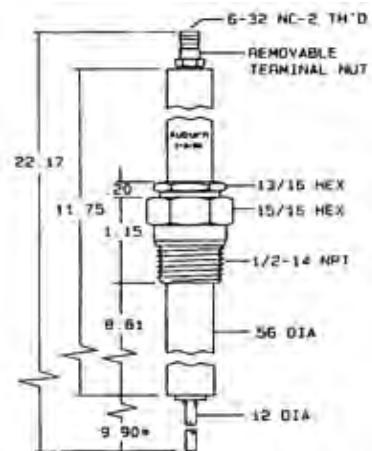
I-33

NOTE: Crown generic available: CA490



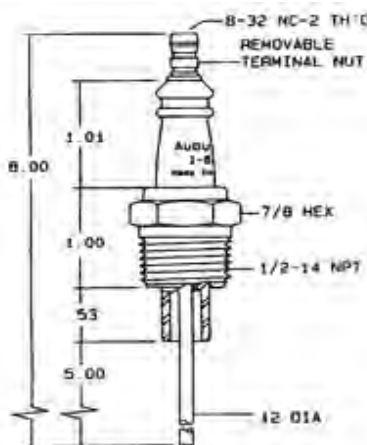
I-34

NOTE: Crown generic available: CA520



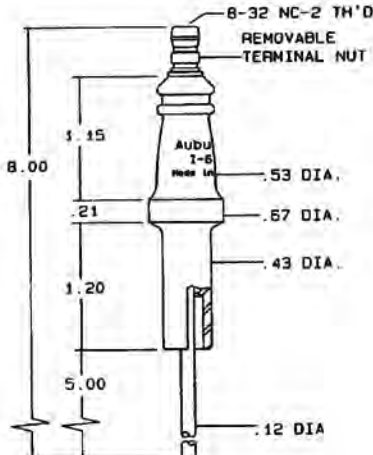
I-5-99

NOTE: Crown generic available: CA370



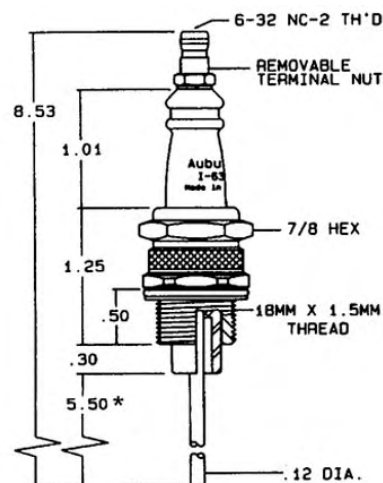
I-6

NOTE: Crown generic available: CA140 thru CA146

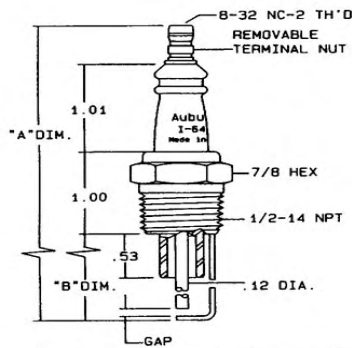


I-6 INSULATOR

NOTE: Crown generic available: CA160



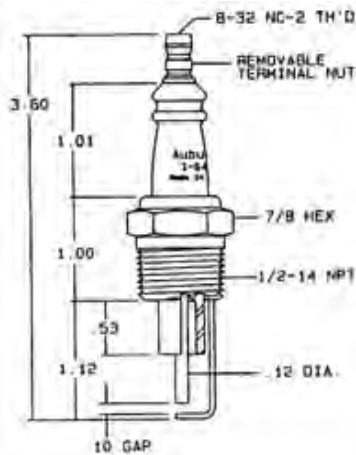
I-63



CAT. NO.	"A" DIM.	"B" DIM.	ELEC. MAT.	GAP
I-64-1	4.20	1.72	NI	.090
I-64-3	6.24	3.75	NI	.090

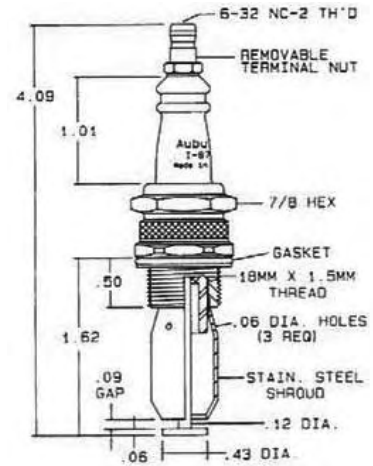
I-64-1 & I-64-3

NOTE: Crown generic available: CA475 (I-64-1) & CA477 (I-64-3)

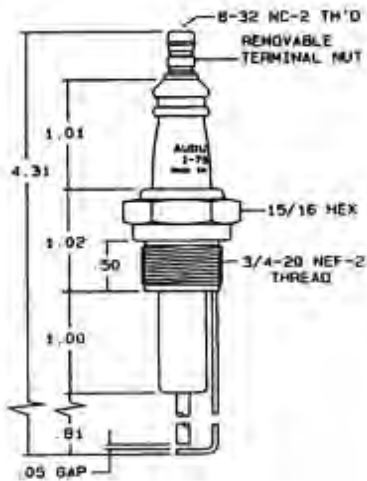


I-64-4

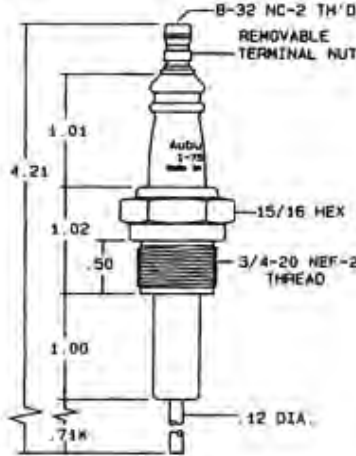
NOTE: Crown generic available: CA478



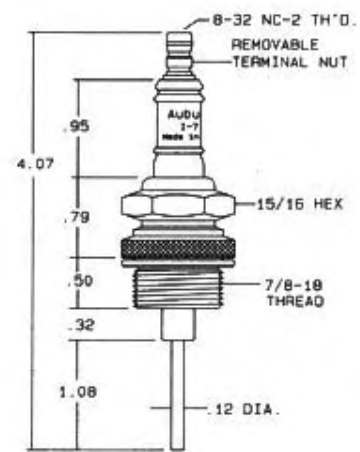
I-67



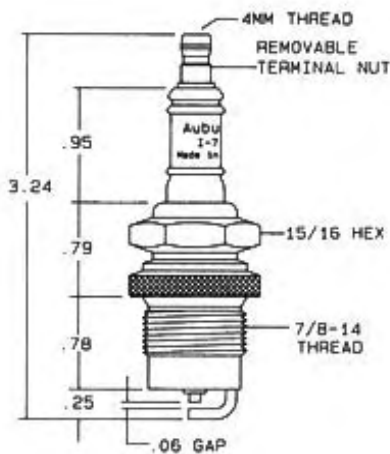
I-75-1



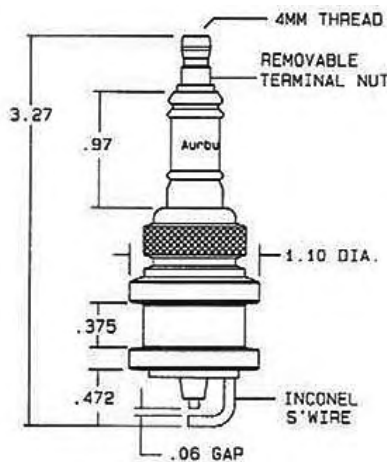
I-75-5



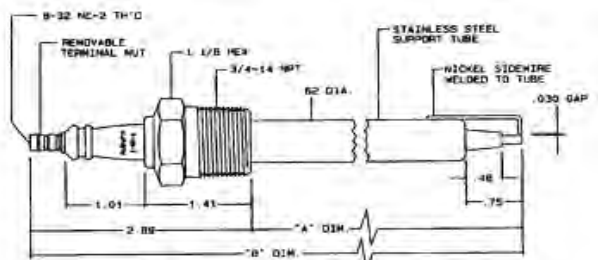
I-78



I-78-2



I-82

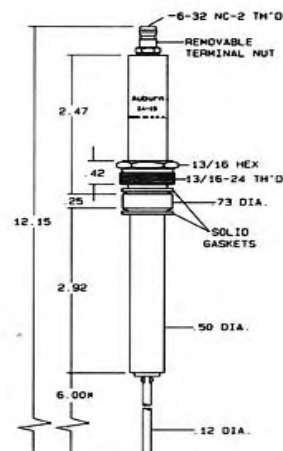


I-90 Series Shrouded Igniters

CATALOG NO.	"A" DIM. (in.)	"B" DIM. (in.)
I-90-1	4.250	7.140
I-90-2	6.900	8.890
I-90-3	9.800	11.000
I-90-4	7.375	10.295
I-90-5	9.837	12.827
I-90-6	12.125	15.015
I-90-7	10.800	12.800
I-90-8	15.750	19.840

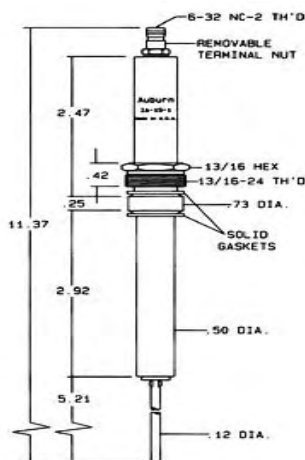
Different lengths available as factory specials

I-90 SERIES



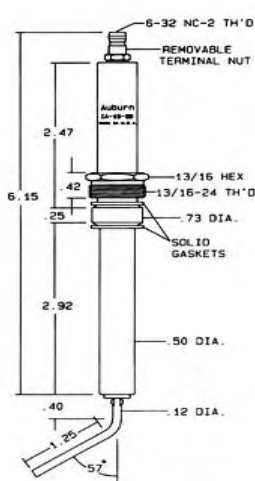
IA-15

NOTE: Crown generic available: CA270

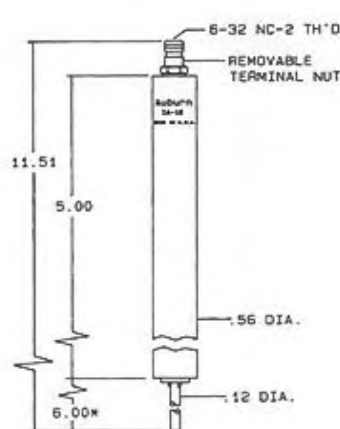


IA-15-1

NOTE: Crown generic available: CA280

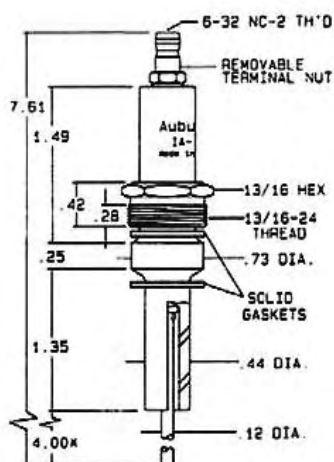


IA-15-2B



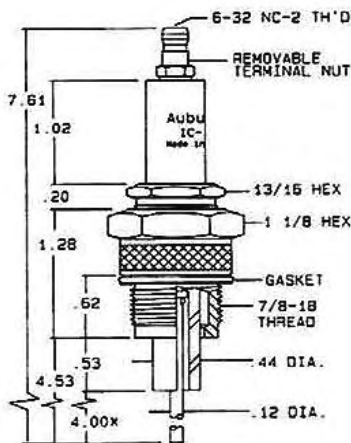
IA-16

NOTE: Crown generic available: CA350



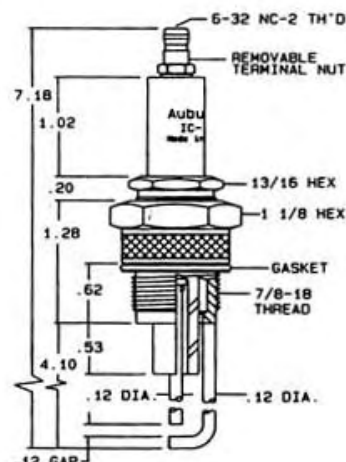
IA-9

NOTE: Crown generic available: CA180



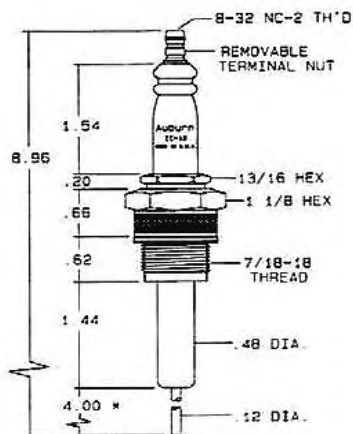
IC-9

NOTE: Crown generic available: CA611



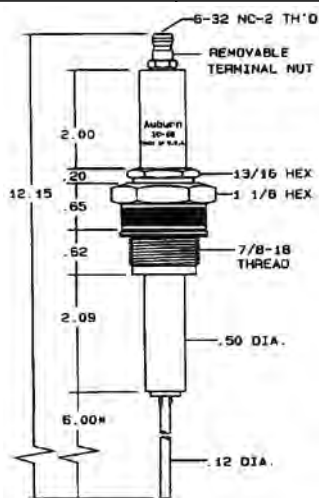
IC-9-2

NOTE: Crown generic available: CA480

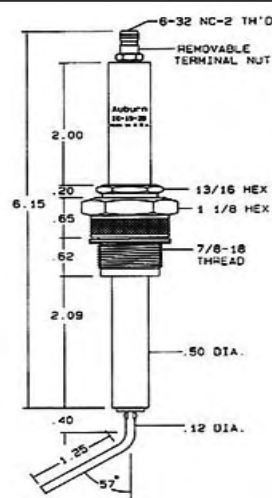


IC-10

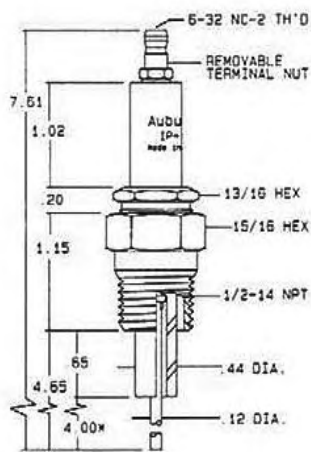
NOTE: Crown generic available: CA607



IC-15

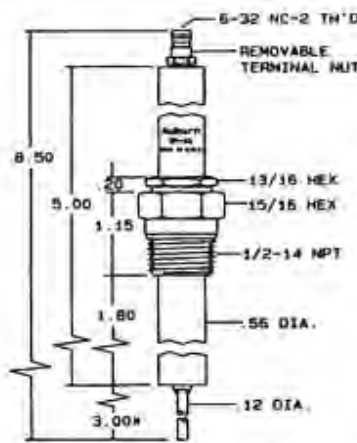


IC-15-3B



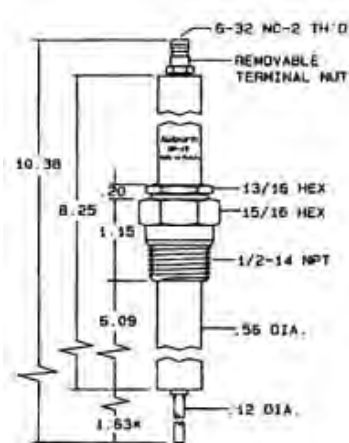
IP-9

NOTE: Crown generic available: CA190



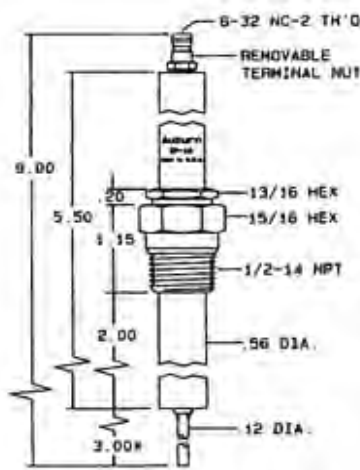
IP-16

NOTE: Crown generic available: CA290



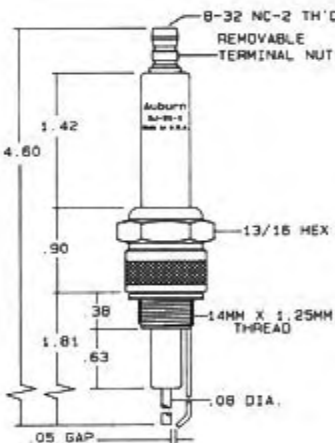
IP-17

NOTE: Crown generic available: CA310



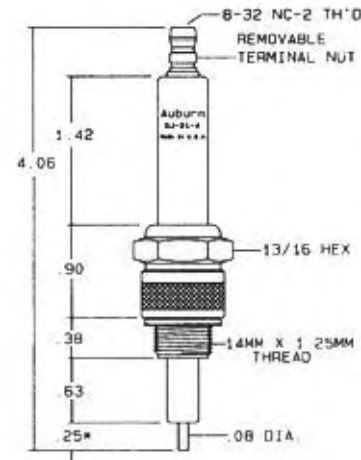
IP-19

NOTE: Crown generic available: CA330



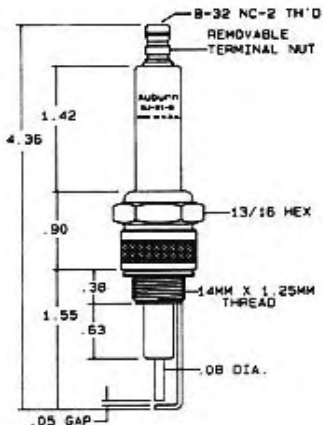
OJ-21-1

NOTE: Crown generic available: CA485



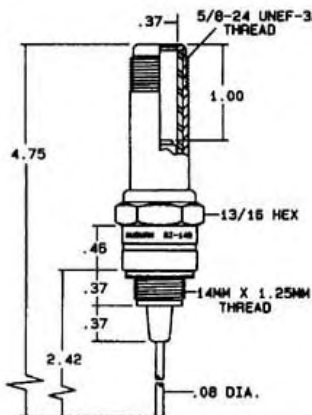
OJ-21-4

NOTE: Crown generic available: CA488

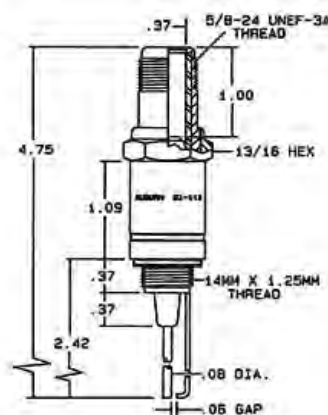


OJ-21-5

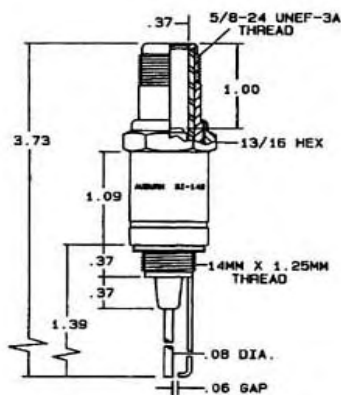
NOTE: Crown generic available: CA489



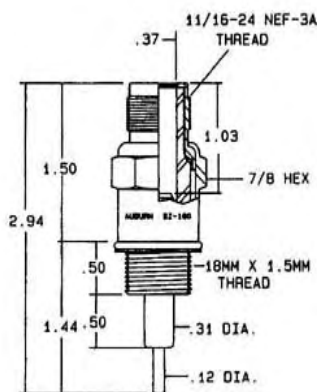
SI-140



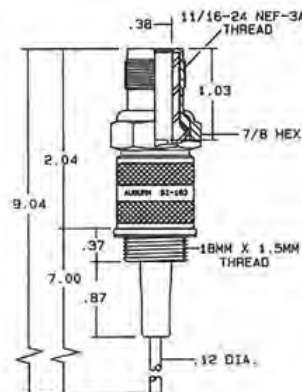
SI-141



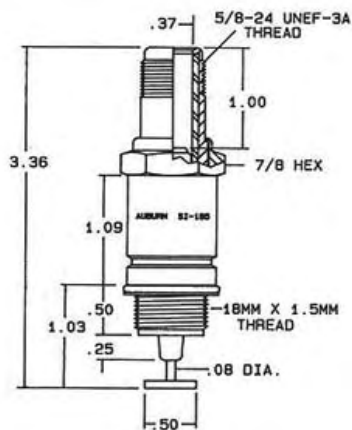
SI-142



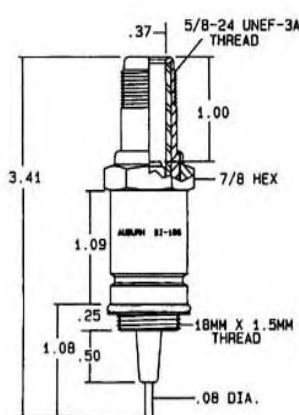
SI-180



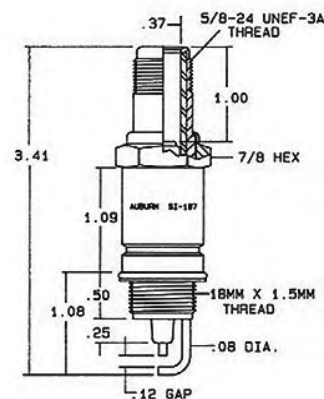
SI-183



SI-185



SI-186

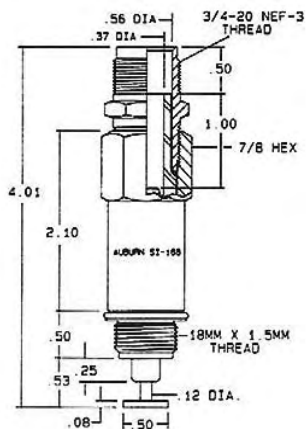


SI-187

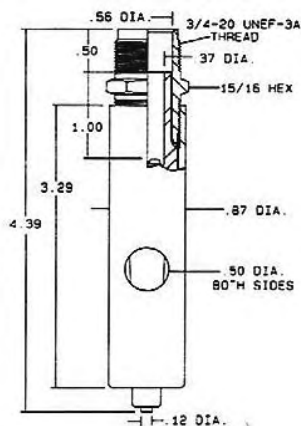


Customer Service

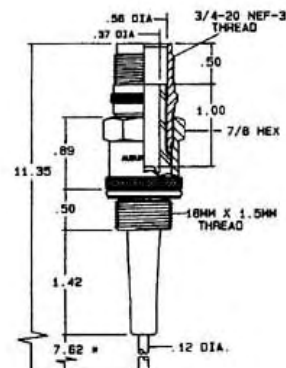
- ◆ Tel: (800) 631-2153
- ◆ Fax: (888) 645-7278
- www.crownengineering.com



SI-188

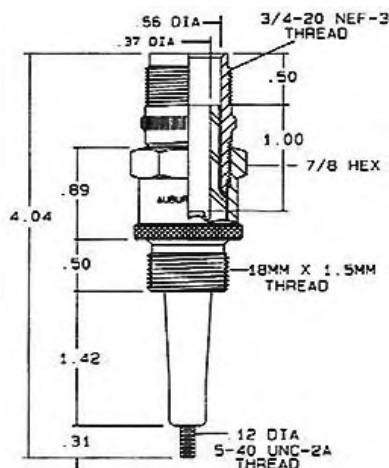


SI-230

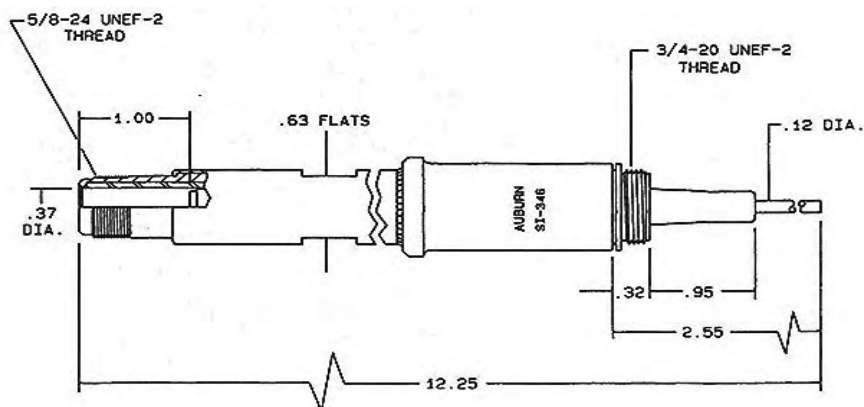


CATALOG NO.	MATERIAL
SI-320	CRS (BLACK OXIDE)
SI-322	CRS (CADMIUM PLATE)

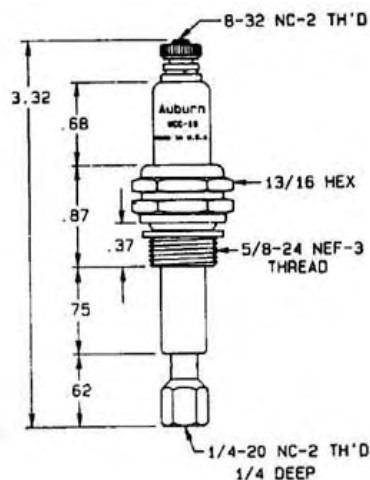
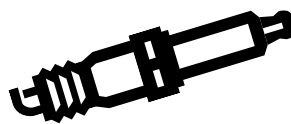
SI-320 & SI-322



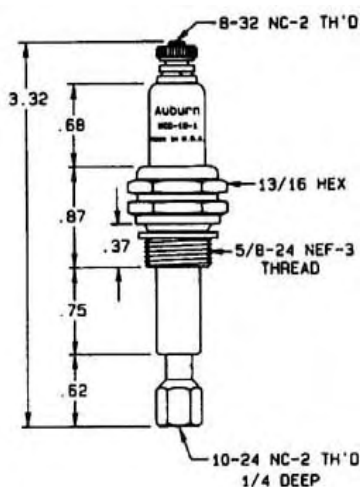
SI-322-1



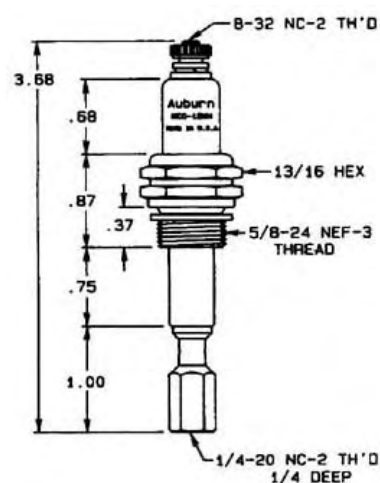
SI-346



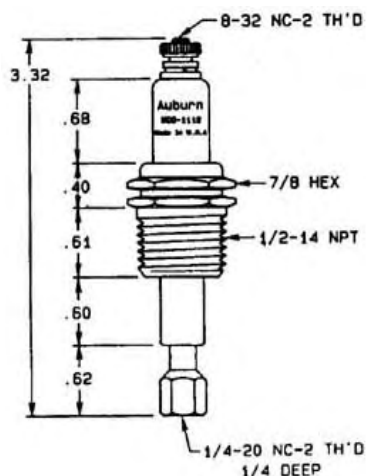
WCC-12



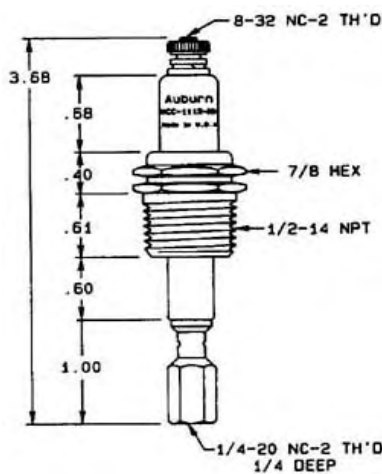
WCC-12-1



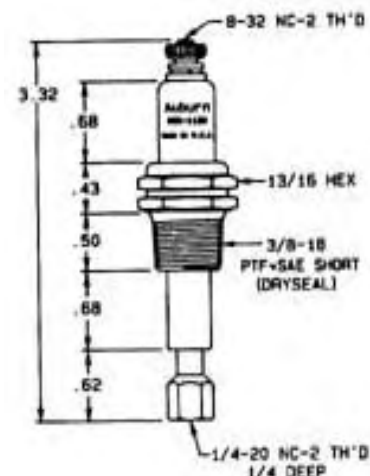
WCC-12KH



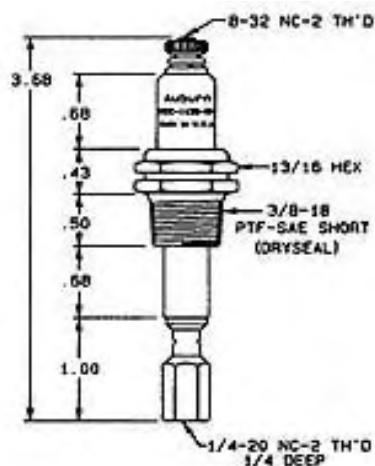
WCC-1112



WCC-1112-KH

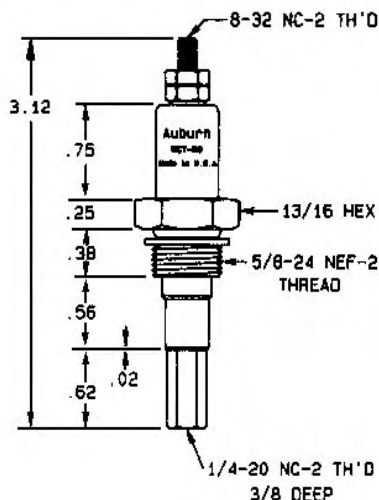


WCC-1138

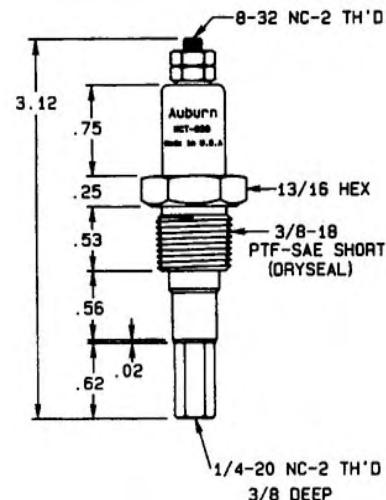


WCC-1138-L

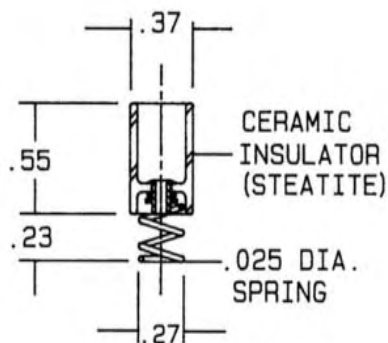
NOTE: Replaces WCC-1138KH



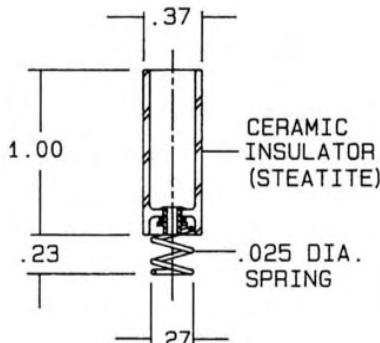
WCT-90



WCT-938



1041-C
Ceramic Terminal Connector



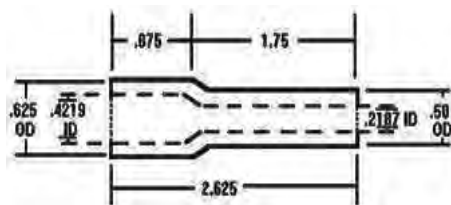
1099-C
Ceramic Terminal Connector



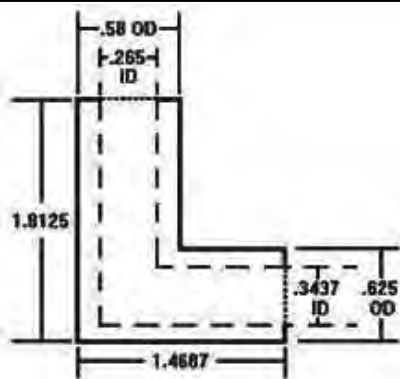
PROTECTOR BOOT		
USED ON	CATALOG NO.	MATERIAL
Flame Rods	022046	Black Silicone

SPECIFICATIONS:
 Overall length: 2 3/8"
 Top ID: 1/4"
 Bottom ID: 1/2"
 Temp Rating: 300 Degrees Fahrenheit

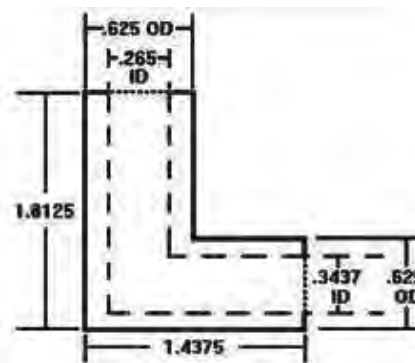
022046
"SI" Series Protector Boot



50740
Straight Silicone Boot
 450° F Max. temperature rating
 All dimensions are approximate



50741
90 Degree Silicone Boot
 450° F Max. temperature rating
 All dimensions are approximate



50742
90 Degree Silicone Boot
 450° F Max. temperature rating
 All dimensions are approximate

Part Number(s):

P-380 (3/4" hex with a 3/8"-18 thread - MOP 350 psi)
 P-500 (7/8" hex with a 1/2"-14 thread - MOP 275 psi)
 P-750 (1 1/8" hex with a 3/4"-14 thread - MOP 200 psi)
 P-1000 (1 3/8" hex with a 1"-11 1/2" thread - MOP 150 psi)



Description: Observation Ports

Packaging: Poly bagged & tagged

Includes: 1 - observation port from the above list with gasket.
 Unsurpassed quality! Our ports offer unitized cico-weld construction with no organic gasket. Our one piece design is compact and leakproof at high temperatures and pressures. Maximum operating temperature is 400 degrees Fahrenheit. Maximum operating pressure (MOP) range from 150 thru 350 psi as specified above.



Made of quality brass and stainless steel all our probes have a standard length of 24" with a threaded end.

Our probes give you the reach you need and can be cut to size in the field if it's too long.

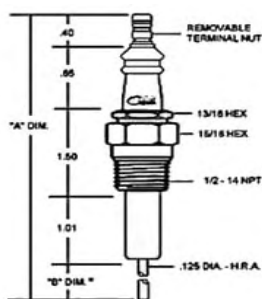
Crown Part Number	Probe Diameter	Probe Thread Size	Material Type
40001B	3/16"	10-24	Brass
40002B	1/4"	1/4-20	Brass
40003B	3/8"	3/8-16	Brass
40001S	3/16"	10-24	Stainless Steel
40002S	1/4"	1/4-20	Stainless Steel
40003S	3/8"	3/8-16	Stainless Steel

Crown Engineering Corporation, the original OEM manufacturer of electrodes, igniters, and flame rods for oil and gas burners, is proud to announce it's new line of industrial igniters and flame rods.

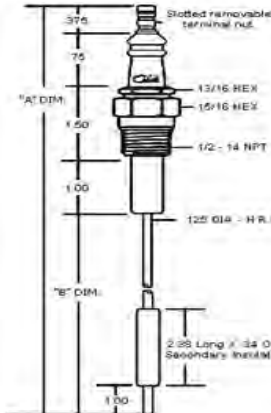
Never before has Crown's quality and workmanship been so evident, as in our NEW industrial line of igniters and flame rods. You can select from a wide variety of stocked items in this catalog or we can B.T.O. (build to order) against your submitted samples and/or drawings...your choice!

Our industrial igniters and flame rods match the original OEM critical specs from the seat of the gland nut to the tip of the center wire or from the end of the gland nut thread to the tip of the center wire, whichever is applicable. Our protruding insulator length or over-all length proves to be of no significance in the field application. All of our igniters are made of high quality heat resistant alloy (H.R.A.) center wires and grade L3 Steatite glazed insulators (except wherever noted). In high pressure applications center wires are cemented in place and Viton® O-rings are included inside the gland nut assemblies.

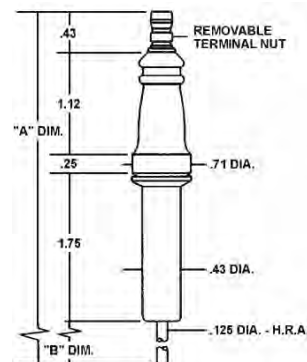
We look forward to serving all your industrial application needs.



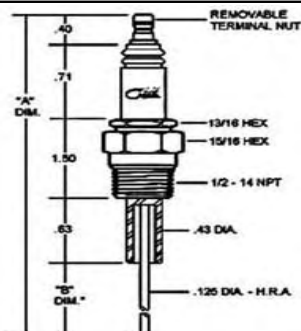
PART NUMBER	"A" DIM.	"B" DIM.	REPLACES
CA100	8.00	4.50	I-2
CA101	15.50	12.00	I-2-1
CA102	27.50	24.00	I-2-2
CA103	39.50	36.00	I-2-36
CA104	51.50	48.00	I-2-48
CA105	21.50	18.00	I-2-18
CA106	41.56	38.00	I-2-38



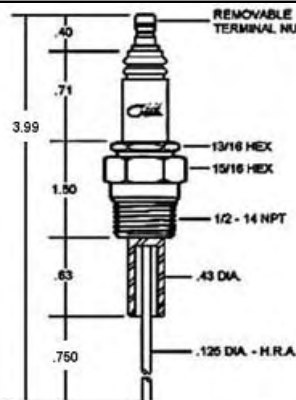
PART NUMBER	"A" DIM.	"B" DIM.	REPLACES
CA107	8.00	4.50	I-2-EI-1
CA108	15.50	12.00	I-2-EI-2



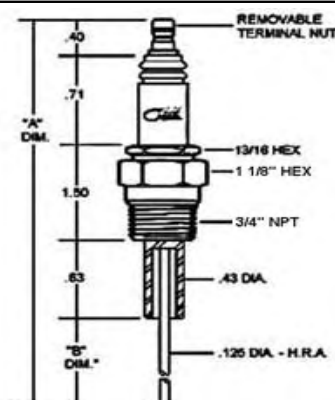
PART NUMBER	"A" DIM.	"B" DIM.	REPLACES
CA120	8.00	4.50	I-2
CA121	15.50	12.00	I-2-1
CA122	27.50	24.00	I-2-2



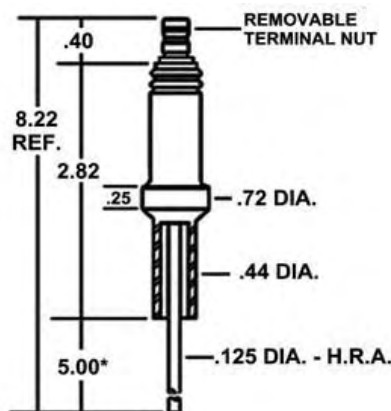
PART NUMBER	"A" DIM.	"B" DIM.	REPLACES
CA140	8.14	4.90	I-6
CA141	9.24	6.00	I-6-6
CA142	15.24	12.00	I-6-12
CA143	21.24	18.00	I-6-18
CA144	27.24	24.00	I-6-24
CA145	38.24	35.00	I-6-35
CA146	51.24	48.00	I-6-48



PART NUMBER	"A" DIM.	"B" DIM.	REPLACES
CA154	3.99	.750	I-6 SPECIAL



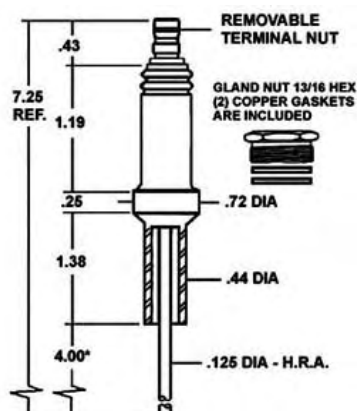
PART NUMBER	"A" DIM.	"B" DIM.	REPLACES
CA155	8.14	4.90	I-6 SPECIAL



CA160

Replaces Auburn #: I-6 INS

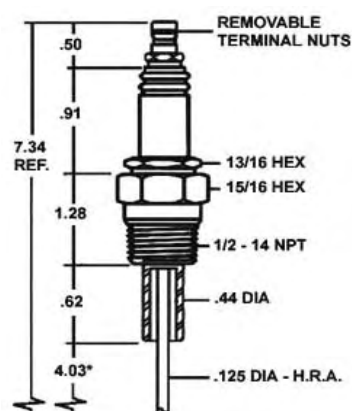
* NOTE: Other tip lengths are available



CA180

Replaces Auburn #: IA-9

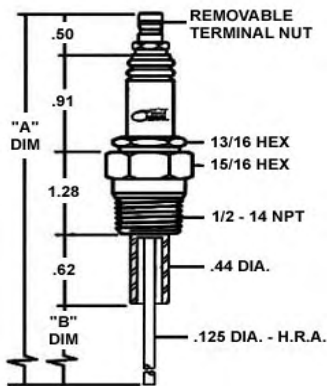
* NOTE: Other tip lengths are available



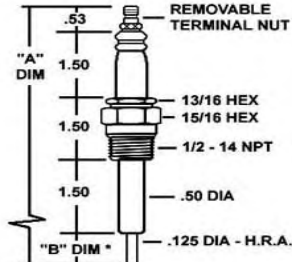
CA190

Replaces Auburn #: IP-9

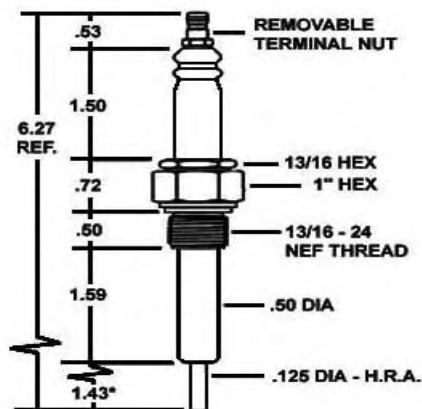
* NOTE: Other tip lengths are available



PART NUMBER	"A" DIM.	"B" DIM.	REPLACES
CA191	16.31	13.00	IP-9-13
CA192	9.31	6.00	IP-9-6
CA195	27.31	24.00	IP-9-24



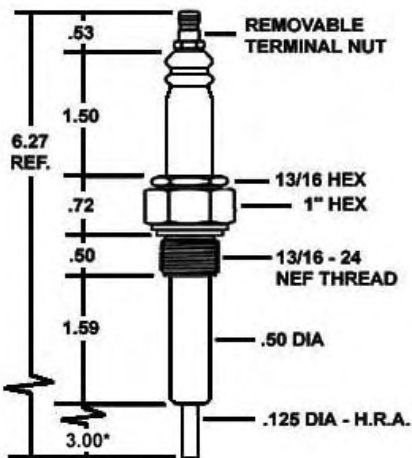
PART NUMBER	"A" DIM.	"B" DIM.	REPLACES
CA200	12.53	7.50	I-18
CA201	5.91	.88	I-18-2.38
CA202	23.03	18.00	I-18-18
CA203	29.03	24.00	I-18-24
CA204	41.03	36.00	I-18-36
CA205	53.03	48.00	I-18-48
CA206	55.03	50.00	I-18-50
CA207	77.03	72.00	I-18-72



CA210

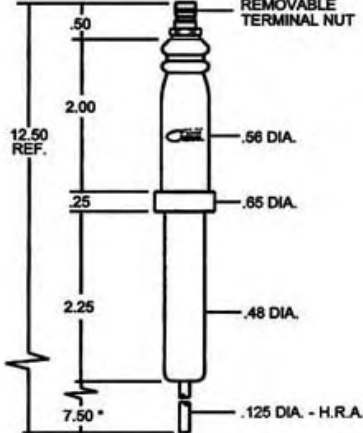
Replaces Auburn #: I-18-14

* NOTE: Other tip lengths are available



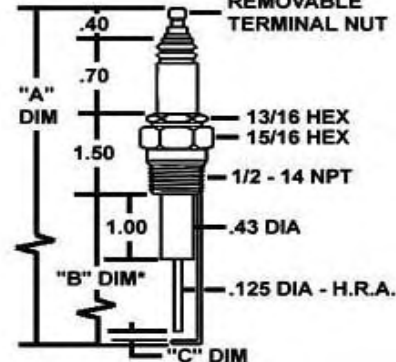
CA211

* NOTE: Other tip lengths are available

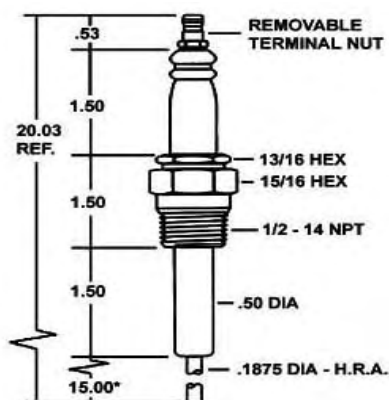


CA220

* NOTE: Other tip lengths are available



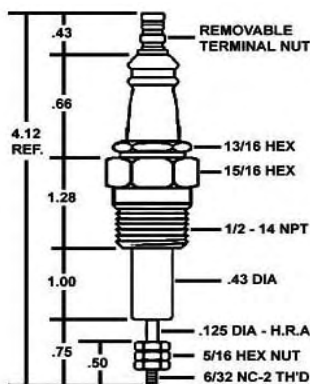
PART NUMBER	"A" DIM.	"B" DIM.	"C" DIM.	REPLACES
CA230	4.32	1.72	.09	I-25
CA231	6.35	3.75	.09	I-25-3
CA232	6.73	3.13	.12	12568
CA233	7.15	4.55	.12	17396
CA235	7.72	5.12	.06	17652



CA240

Replaces Auburn #: I-18K

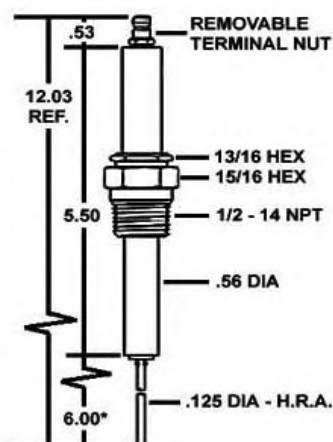
* NOTE: Other tip lengths are available



CA250

Replaces Auburn #: F-68

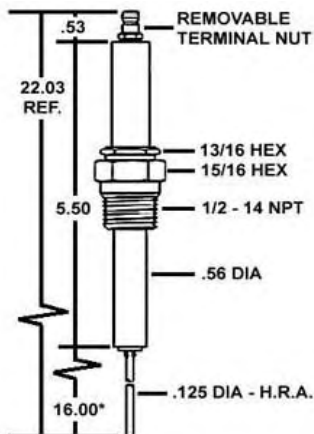
* NOTE: Other tip lengths are available



CA260

Replaces Auburn #: F-68

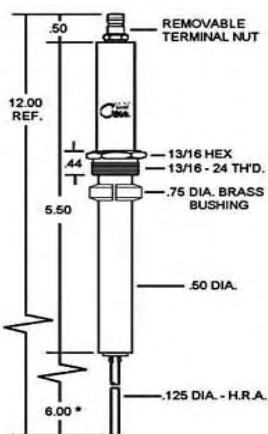
* NOTE: Other tip lengths are available



CA262

Replaces Auburn #: IP-15-16

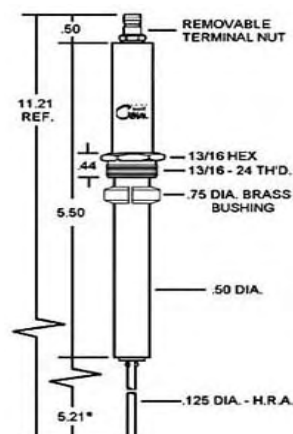
* NOTE: Other tip lengths are available



CA270

Replaces Auburn #: 1A-15

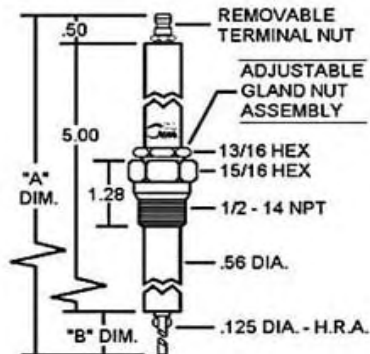
* NOTE: Other tip lengths are available



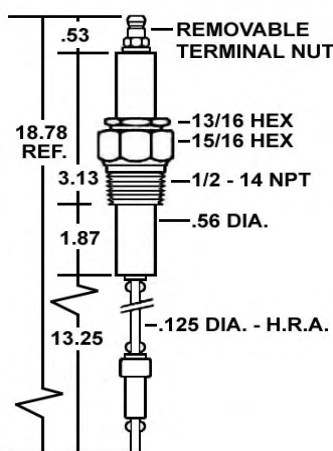
CA280

Replaces Auburn #: 1A-15-1

* NOTE: Other tip lengths are available



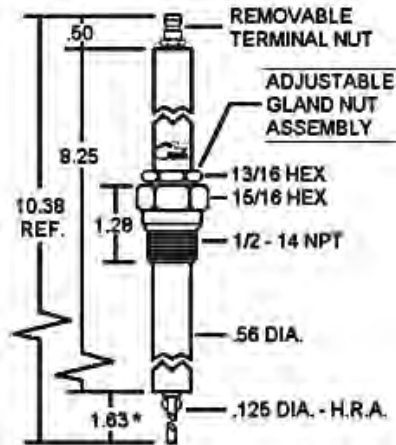
PART NUMBER	"A" DIM.	"B" DIM.	REPLACES
CA290	8.50	3.00	IP-16
CA291	11.50	6.00	IP-16-6
CA293	29.50	24.00	IP-16-24
CA303	18.50	13.00	IP-16-13



CA304

Replaces Auburn #: IP-16-EI

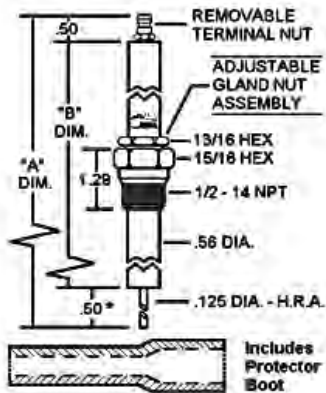
* NOTE: Other tip lengths are available



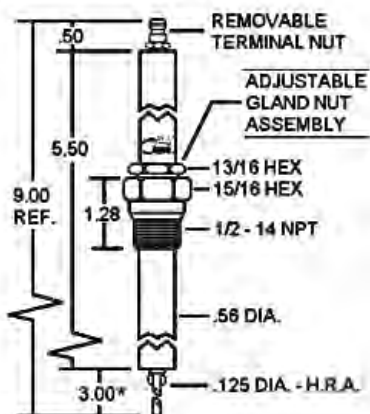
CA310

Replaces Auburn #: IP-17

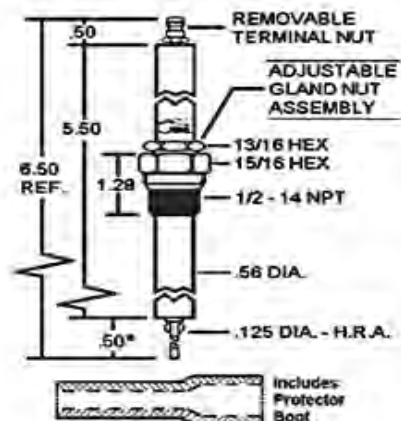
* NOTE: Other tip lengths are available



PART NUMBER	"A" DIM.	"B" DIM.	REPLACES
CA311	9.28	8.25	IP-17-1
CA322	7.53	6.50	IP-18-1

**CA330****Replaces Auburn #: IP-19**

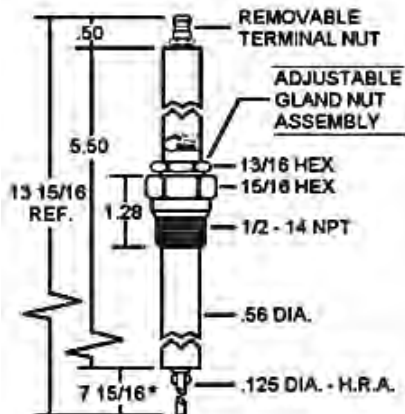
* **NOTE:** Other tip lengths are available



CA331

Replaces Auburn #: IP-19-1

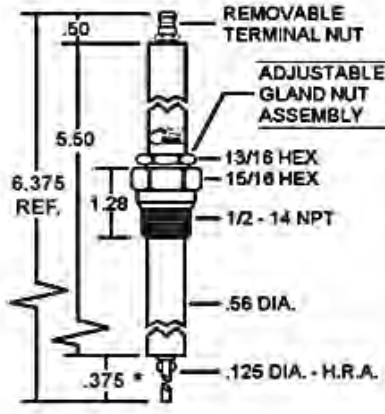
* **NOTE:** Other tip lengths are available



CA333

Replaces Auburn #: IP-19 with 7 15/16 tip

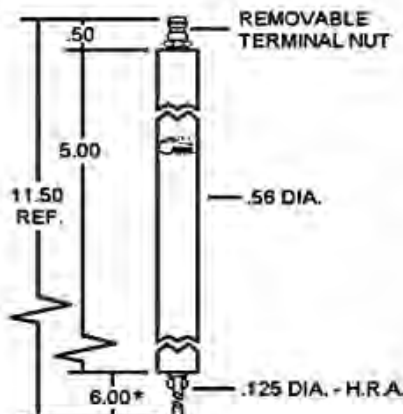
* **NOTE:** Other tip lengths are available



CA341

Replaces Maxon #: 47232

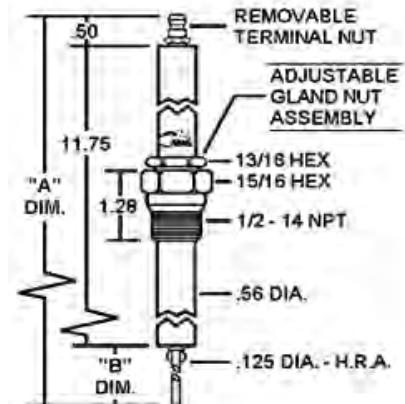
* **NOTE:** Other tip lengths are available



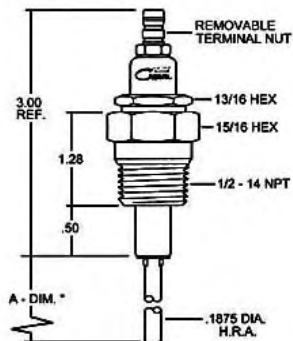
CA350

Replaces Auburn #: IA-16

* **NOTE:** Other tip lengths are available



PART NUMBER	"A" DIM.	"B" DIM.	REPLACES
CA370	22.25	10.00	1-5-99
CA377	46.25	34.00	1-5-99-34
CA378	60.25	48.00	1-5-99-48



PART NUMBER	"A" DIM.	REPLACES
CA390	6.00	FRS-2-6
CA391	12.00	FRS-2-12
CA392	18.00	FRS-2-18
CA393	24.00	FRS-2-24
CA394	36.00	FRS-2-36

* **NOTE:** Other tip lengths are available

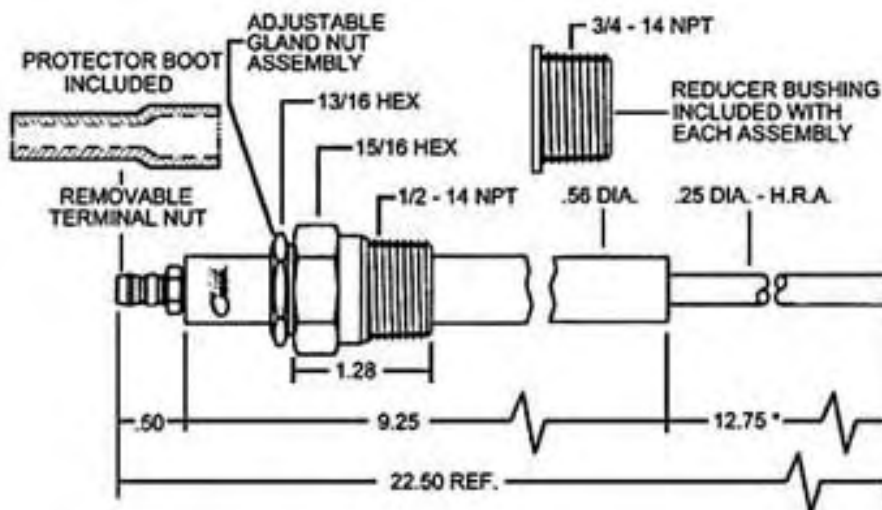
Don't see what your looking for?

**Fax us a drawing with
your dimensions, the
quantity you need and
we will be glad to quote
your requirement.**



Customer Service

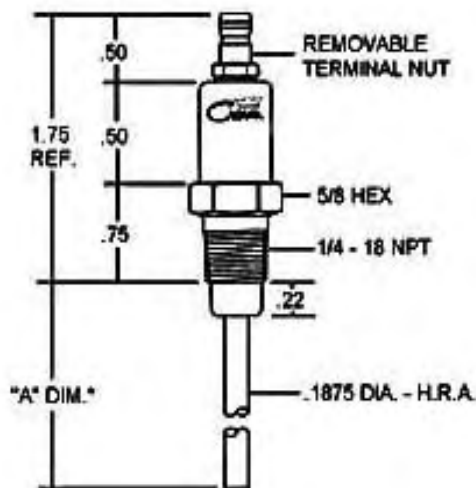
- ◆ Tel: (800) 631-2153
- ◆ Fax: (888) 645-7278
- www.crownengineering.com



CA410

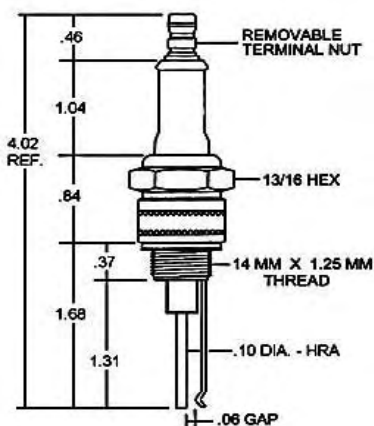
Replaces Auburn #: FRS-3

* NOTE: Other tip lengths are available



PART NUMBER	"A" DIM.	REPLACES
CA429	1.00	FRS-4-1
CA430	2.00	FRS-4-2
CA431	3.00	FRS-4-3
CA432	4.00	FRS-4-4
CA433	4.50	FRS-4-4.5
CA434	6.00	FRS-4-6
CA435	7.50	GP-18117
CA436	12.00	FRS-4-12
CA437	18.00	FRS-4-18
CA438	24.00	FRS-4-24
CA439	36.00	FRS-4-36
CA440	48.00	FRS-4-48
CA441	60.00	FRS-4-60

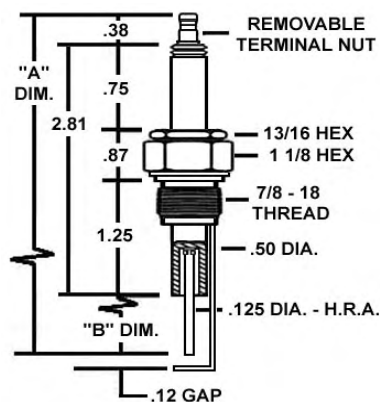
* NOTE: Other tip lengths are available



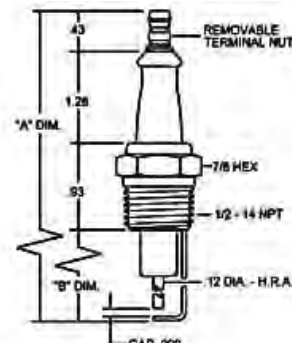
CA470

Replaces Auburn #: I-3

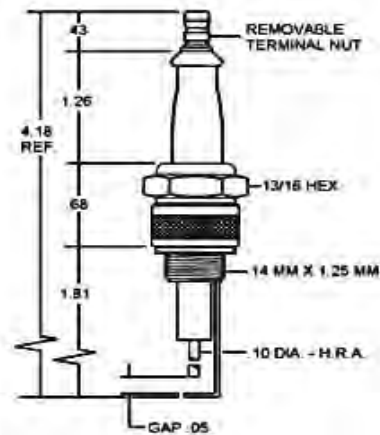
95% Alumina Ceramic



PART NUMBER	"A" DIM.	"B" DIM.	REPLACES
CA480	6.50	3.25	IC-9-2
CA481	5.50	1.87	IC-9-4
CA482	5.87	2.68	IC-9-5

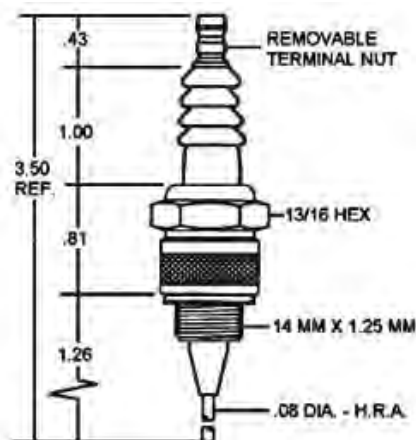


PART NUMBER	"A" DIM.	"B" DIM.	REPLACES
CA475	4.25	1.72	I-64-1
CA476	4.46	1.93	I-64 SPECIAL
CA477	6.39	3.75	I-64-3
CA478	3.75	1.12	I-64-4
CA479	5.10	2.53	I-64-5



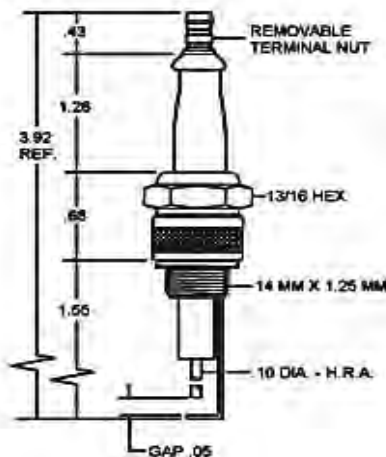
CA485

Replaces Auburn #: OJ-21-1



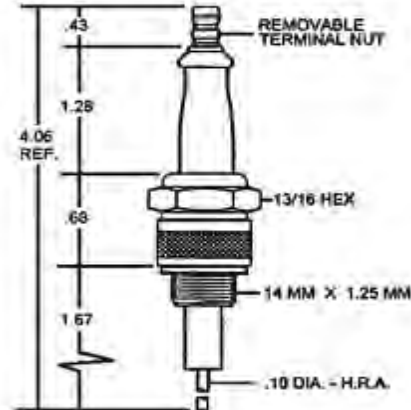
CA488

Replaces Auburn #: OJ-21-4



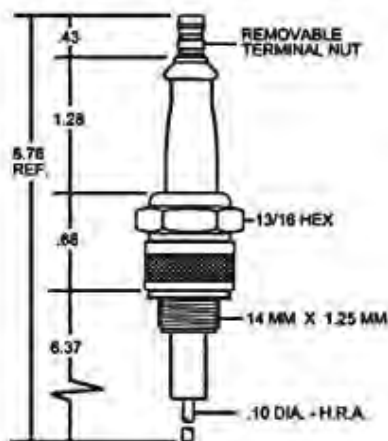
CA489

Replaces Auburn #: OJ-21-5



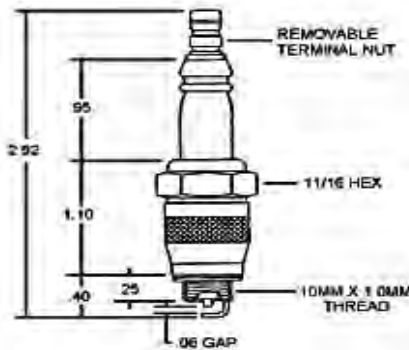
CA490

Replaces Auburn #: I-33



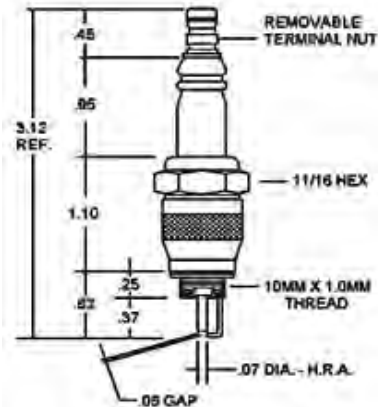
CA496

Replaces Auburn #: I-33-6



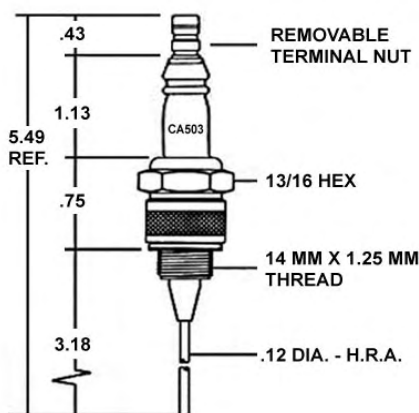
CA500

Replaces Auburn #: I-101



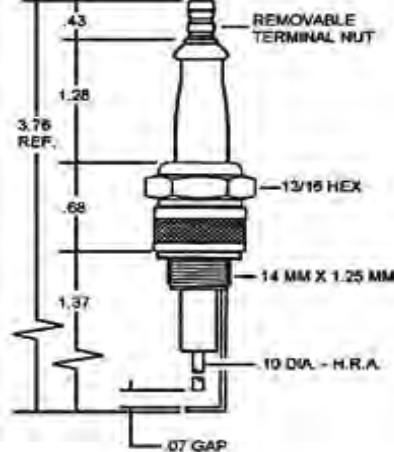
CA502

Replaces Auburn #: I-102



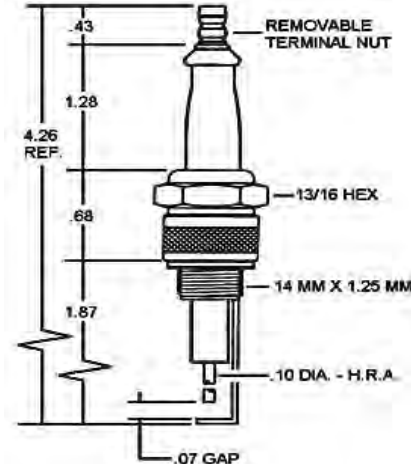
CA503

Replaces Auburn #: I-143



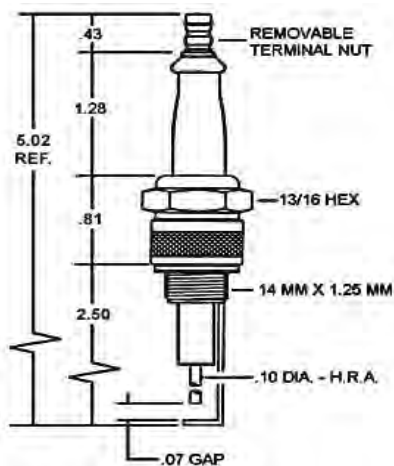
CA505

Replaces Auburn #: I-31

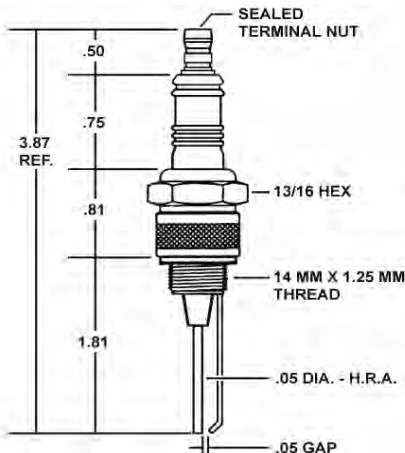


CA506

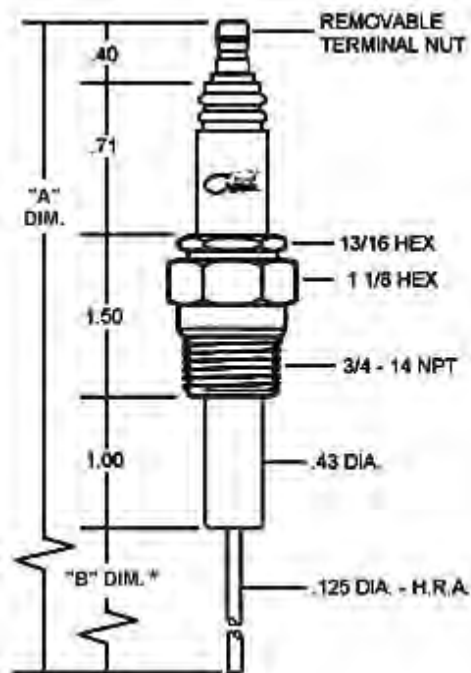
Replaces Auburn #: I-31-1



CA507
 Replaces Auburn #: I-31-2

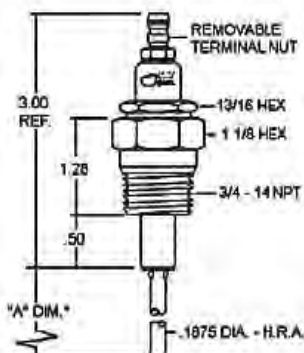


CA515
 Replaces Auburn #: I-32

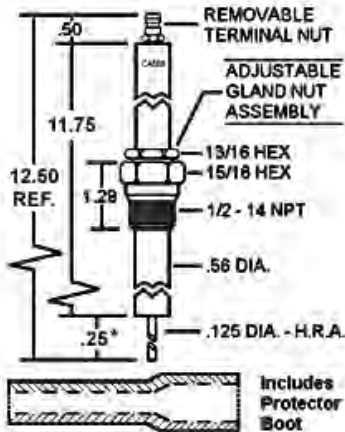


PART NUMBER	"A" DIM.	"B" DIM.	REPLACES
CA520	9.23	5.62	I-34
CA522	5.99	2.38	I-34-2.38
CA528	15.23	11.62	I-34-12
CA529	23.23	19.62	I-34-20
CA530	29.23	25.62	I-34-26
CA531	39.23	35.62	I-34-36
CA533	57.23	53.62	I-34-54

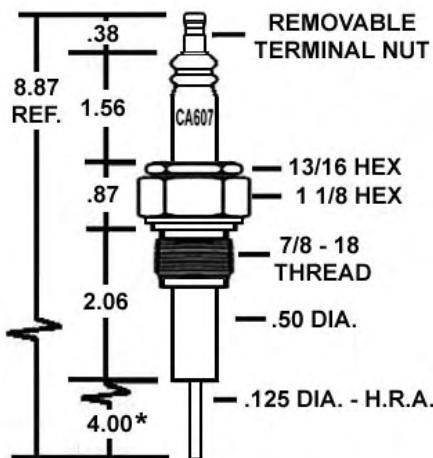
* NOTE: Other tip lengths are available



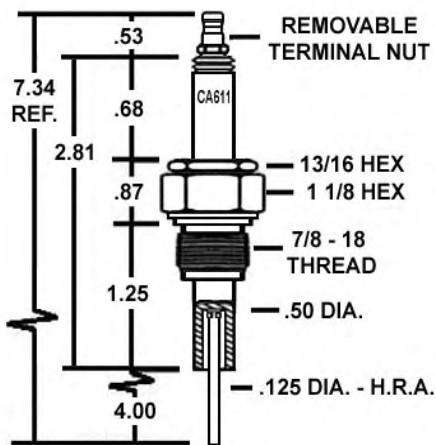
PART NUMBER	"A" DIM.	REPLACES
CA540	6.00	ECLIPSE 14265-1
CA541	12.00	ECLIPSE 14265-2
CA542	18.00	ECLIPSE 14265-3
CA543	24.00	ECLIPSE 14265-4



CA566
 Replaces Eclipse #: 42148/45979
 * NOTE: Other tip lengths are available



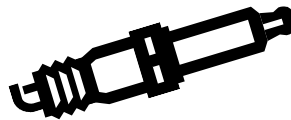
CA607
 Replaces Auburn #: IC-10
 * NOTE: Other tip lengths are available



CA611
 Replaces Auburn #: IC-9
 * NOTE: Other tip lengths are available

Don't see what your looking for?

Fax us a drawing with your dimensions, the quantity you need and we will be glad to quote your requirement.



FRACTIONS DECIMALS MILLIMETERS FRACTIONS DECIMALS MILLIMETERS

	$\frac{1}{64}$	.0156	0.396
	$\frac{1}{32}$	.0312	0.793
	$\frac{3}{64}$	.0469	1.190
$\frac{1}{16}$	$\frac{5}{64}$	.0625	1.587
	$\frac{7}{64}$	.0781	1.984
	$\frac{9}{64}$	.0937	2.381
	$\frac{11}{64}$	.1094	2.778
$\frac{1}{8}$	$\frac{13}{64}$	.125	3.175
	$\frac{15}{64}$	.1406	3.571
	$\frac{17}{64}$	.1562	3.968
	$\frac{19}{64}$	.1719	4.365
$\frac{3}{16}$	$\frac{21}{64}$	.1875	4.762
	$\frac{23}{64}$	.2031	5.159
	$\frac{25}{64}$	.2187	5.556
	$\frac{27}{64}$	.2344	5.953
$\frac{1}{4}$	$\frac{29}{64}$	.25	6.350
	$\frac{31}{64}$	.2656	6.746
	$\frac{33}{64}$	.2812	7.143
	$\frac{35}{64}$	.2969	7.540
$\frac{5}{16}$	$\frac{37}{64}$	.3125	7.937
	$\frac{39}{64}$	.3281	8.334
	$\frac{41}{64}$	.3437	8.731
	$\frac{43}{64}$	.3594	9.128
$\frac{3}{8}$	$\frac{45}{64}$	.375	9.525
	$\frac{47}{64}$	.3906	9.921
	$\frac{49}{64}$	.4062	10.318
	$\frac{51}{64}$	.4219	10.715
$\frac{7}{16}$	$\frac{53}{64}$	.4375	11.112
	$\frac{55}{64}$	.4531	11.509
	$\frac{57}{64}$	.4687	11.906
	$\frac{59}{64}$	.4844	12.303
$\frac{1}{2}$	$\frac{63}{64}$	.5	12.700

	$\frac{33}{64}$	.5156	13.096
	$\frac{35}{64}$	.5312	13.493
	$\frac{37}{64}$	.5469	13.890
$\frac{9}{16}$	$\frac{39}{64}$	.5625	14.287
	$\frac{41}{64}$	.5781	14.684
	$\frac{43}{64}$	.5937	15.081
	$\frac{45}{64}$	.6094	15.478
$\frac{5}{8}$	$\frac{47}{64}$	.625	15.875
	$\frac{49}{64}$	.6406	16.271
	$\frac{51}{64}$	.6562	16.668
	$\frac{53}{64}$	.6719	17.065
$\frac{11}{16}$	$\frac{55}{64}$	.6875	17.462
	$\frac{57}{64}$	.7031	17.859
	$\frac{59}{64}$	.7187	18.256
	$\frac{61}{64}$	.7344	18.653
$\frac{3}{4}$	$\frac{63}{64}$	.75	19.050
	$\frac{65}{64}$	.7656	19.446
	$\frac{67}{64}$	.7812	19.843
	$\frac{69}{64}$	.7969	20.240
$\frac{13}{16}$	$\frac{71}{64}$	.8125	20.637
	$\frac{73}{64}$	.8281	21.034
	$\frac{75}{64}$	.8437	21.431
	$\frac{77}{64}$	.8594	21.828
$\frac{7}{8}$	$\frac{79}{64}$	.875	22.225
	$\frac{81}{64}$	.8906	22.621
	$\frac{83}{64}$	.9062	23.018
	$\frac{85}{64}$	.9219	23.415
$\frac{15}{16}$	$\frac{87}{64}$	.9375	23.812
	$\frac{89}{64}$	.9531	24.209
	$\frac{91}{64}$	.9687	24.606
	$\frac{93}{64}$	.9844	25.003
1	$\frac{95}{64}$	1.	25.400



Customer Service

◆ Tel: (800) 631-2153
 ◆ Fax: (888) 645-7278
 www.crownengineering.com

Section 4: Terminals, Kits & Cable

					
CAGE 50000	SPRING 50100	RING 50200	HOOK 50250	ANGLE / CAGE 50400	RIGHT ANGLE CAGE 50450
					
ANGLE SPRING 50500	STUD FERRULE 50600	HEX BASE STUDS 6-32 THD. 50760 8-32 THD. 50780 10-32 THD. 50700	LONG HEX BASE STUDS 6-32 THD. 50761 10-32 THD. 50751	HOLLOW THD. STUDS 6-32 THD. 50860 8-32 THD. 50880 10-32 THD. 50800	STUD / ANGLE NYLON CAP 55011
					
BASE STUD / SOLDERLESS BRASS FERRULE 55021	SOLDERLESS RING / SHORT NYLON CAP 55101	SOLDERLESS SPRING / SHORT NYLON CAP 55201	SPRING / ANGLE NYLON CAP 55211	SPRING / SOLDERLESS BRASS FERRULE 55221	SPRING / EXTENDED NYLON CAP 55231
					
SOLDERLESS ANGLE SPRING / SHORT CAP 55301	ANGLE SPRING / SOLDERLESS BRASS FERRULE 55321	CAGE / CAGE 51550	SPRING / SPRING 51560	CAGE / THD. STUD 10-32 THD. X 3/8" L 51630	SPRING / STUD 10-32 THD. X 3/8" L 51730 6-32 THD. X 1 1/8" L 51711
					
ANGLE SPRING / STUD 10-32 THD. X 3/8" L 51753	SPRING / HEX BASE 10-32 THD. 51900 6-32 THD. 51960	TERMINAL THUMB NUT 10-32 THD. 52200	CAGE / BUSS BAR CLIP 52210	SPRING / BUSS BAR CLIP 52220	HEX BASE / BUSS BAR CLIP 10-32 THD. 52230
					
LONG HEX BASE / BUSS BAR CLIP 10-32 THD. 52235	SHORT HEX STUD 3-56 THD. 52263 6-32 THD. 52266 10-32 THD. 52260	BECKETT SPRING ADAPTER 52285	SHORT "A" SPRING 52290	SPRING ADAPTER 52300	SPRING / BINDING POST 52315



Customer Service

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♦ Fax: (888) 645-7278
www.crownengineering.com

CAGE / BINDING POST 52316	CONTACT POST 10-32 THD. 52350	KNURLED CONTACT POST 10-32 THD. 52355	SHORT "Y" SPRING 52365	LONG "Y" SPRING 52366	HOOK / HEX BASE 10-32 THD. 52440
SPRING / DRILLED FERRULE .096 DIA. HOLE 52571	ANGLE SPRING / DRILLED FERRULE .096 DIA HOLE 52641	CAGE / CONTACT POST 52810	CAGE / HEX BASE BUSS BAR CLIP 52830	CAGE / SHORT HEX BASE STUD 52840	CAGE / SHORT "A" SPRING 52850
CAGE / ADAPTER SPRING 52860	RIGHT ANGLE CAGE / CAGE 52880	SLOTTED HEX BASE STUD 6-32 THD. 52891	SMALL INSULATED THUMB NUT 10-32 THD. 52900	CAGE / LARGE INSULATED THUMB NUT 52915	SPRING / LARGE INSULATED THUMB NUT 52916
		<h2>Solderless Wire Terminals</h2>			
CAGE / WEBSTER CLIP 52920	HEX BASE STUD / SHORT NYLON 55001			RING TERMINAL 22-16 WIRE SIZE 4-6 STUD SIZE 61850	RING TERMINAL 22-16 WIRE SIZE 8-10 STUD SIZE 61854
RING TERMINAL 16-14 WIRE SIZE 4-6 STUD SIZE 61856	RING TERMINAL 16-14 WIRE SIZE 8-10 STUD SIZE 61858	FLANGED SPADE 22-16 WIRE SIZE 4-6 STUD SIZE 61860	SPADE TERMINAL 16-14 WIRE SIZE 4-6 STUD SIZE 61862	SPADE TERMINAL 16-14 WIRE SIZE 8-10 STUD SIZE 61864	MALE DISCONNECT 16-14 WIRE SIZE .250 STUD SIZE 61866
FEMALE DISCONNECT 16-14 WIRE SIZE .250 STUD SIZE 61868	PIG TAIL - LARGE 18-10 WIRE SIZE NPIG1810	PIG TAIL - SMALL 22-14 WIRE SIZE NPIG2214	BUTT CONNECTOR 22-18 WIRE SIZE VBC2218	BUTT CONNECTOR 12-10 WIRE SIZE VBC1210	BUTT CONNECTOR 16-14 WIRE SIZE VBC1614



 WEBSTER CLIP 32849	 ADAPTER BUSHING 7/16" ID X 9/16" OD 45000 7/16" ID X 1/2" OD 45010	 DRAVO BUSHING 9/16" ID X 5/8" OD X 1" L 45020	 BRASS BUSHING 9/16" ID X 3/4" OD X 7/16" L 45030	 1/8" GROOVED BUSHING 1/2" ID X 3/4" OD X 7/16" L 45031	 RAY BUSHING 7/16" ID X 9/16" OD X 3/4" L 45220
 REDUCER BUSHING 3/4" NPT TO 1/2" NPT 45196	 CLEAVER BROOKS RETAINER RING 9/16" ID X 23/32" OD X 1/16" TK 45150	 WALTER KIDDE BUSS BAR 45160	 THREADED STUD 10-32 THD. 45170 6-32 THD. 45173	 ABC / SUNRAY STUD SPRING ASSEMBLY - OAL 6 1/4" 45171  ABC / SUNRAY RIGHT ANGLE / STUD SPRING ASSEMBLY - OAL 6 1/8" 45172	
 GLAND NUT ASSEMBLY 13/16"-24 THD. 45180	 SHELL BODY FOR 7/16" & 1/2" DIA. INSULATORS WITH 1/2"-14 NPT THD. 45190	 SHELL BODY FOR 9/16" DIA. INSULATORS WITH 1/2"-14 NPT THD. 45191	 GLAND NUT ASSEMBLY FOR 9/16" INSULATORS WITH 1/2"-14 NPT THD. 45195	 SHELL BODY FOR 7/16" & 1/2" DIA. INS. WITH 13/16"-24 THD. 45197	 SHELL BODY FOR 9/16" DIA. INSULATORS WITH 3/4" NPT THD. 45198
 GLAND NUT ASSEMBLY FOR 1/2" INSULATORS WITH 1/2"-14 NPT THD. 45199	 GLAND NUT ASSEMBLY FOR 7/16" INSULATORS WITH 1/2"-14 NPT THD. 45202		We can customize your terminal requirements to fit your specific application. Send us your print.		

Terminal Packaging Note

Please note that most of the terminal connectors listed on pages 57 through 59 are packaged in 10 and 50 packs.

To order a 10 pack simply add the suffix -10 after the 5 digit part number. For a 50 pack add a -50.

6-32 ELECTRODE ROD PAK
40300 (ERP6)



10-32 ELECTRODE ROD PAK
40305 (ERP10)



Part Number: 40300 (1/8" rod dia. X 6-32 Thread)
 40305 (3/16" rod dia. X 10-32 Thread)

Description: Electrode rod pak

Packaging: Poly bagged & tagged

Includes: 4 each of one of the above items

Our electrode rod paks are designed to fit Crown insulators up to 6" in length.

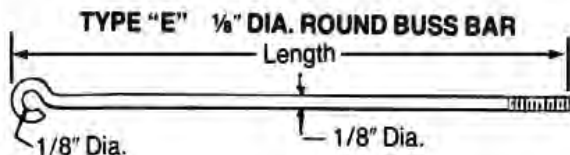
40300 fits the following ceramic diameters, 7/16", 1/2", & 9/16" with 1/8" key way bore.

40305 fits the following ceramic diameters, 7/16", 1/2", & 9/16" with 3/16" key way bore.

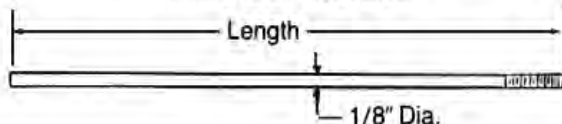
We stock three types of buss bar connectors available in standard lengths of 6", 8", 10", and 12".

Other lengths and forms are available on request. Please note minimum quantities are required.

Our type "E" and "S" rounded buss bars feature annealed 1/8" diameter 303 Stainless Steel with 6-32 roll threads.

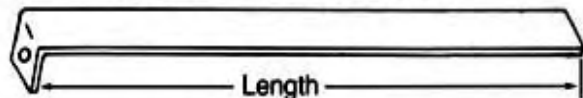


TYPE "S" 1/8" DIA. ROUND STRAIGHT BUSS BAR
THREADED ONE END



Our type "F" flat buss bars feature 3/8" wide X .040 thick 260 brass alloy.

TYPE "F" FLAT BUSS BAR



Buss Bar	Type "E"	Type "S"	Type "F"
6" Length	40309	40322	40316
8" Length	40311	40324	40318
10" Length	40313	40325	40319
12" Length	40315	40326	40320

Part Number: 41800

Description: Ignition terminal kit - "Mini-Kit"

Packaging: Sturdy hinged plastic box

Includes:

- 20 - 50000 Cage
- 12 - 50100 Spring
- 20 - 50200 Ring
- 10 - 50400 Angle Cage
- 12 - 50600 Stud ferrule



Part Number: 41805

Description: Transformer kit

Packaging: Sturdy hinged plastic box

Includes:

- 6 - 45580 Transformer clip
- 6 - 50800 10-32 Hollow thrd. stud
- 6 - 51550 Cage/Cage
- 6 - 52210 Cage/Buss bar clip
- 6 - 52230 Hex/Buss bar clip
- 6 - 52260 10-32 Hex base stud
- 6 - 52290 Spring adapter
- 6 - 52300 Spring adapter
- 4 - 52315 Binding post
- 4 - 52340 10-32 Spring contact
- 6 - 52350 10-32 Contact post



Part Number: 41810

Description: Ignition terminal kit - "Deluxe"

Packaging: Sturdy hinged plastic box

Includes:

- 12 - 50000 Cage
- 12 - 50100 Spring
- 12 - 50200 Ring
- 12 - 50400 Angle Cage
- 12 - 50600 Stud ferrule
- 12 - 50760 6-32 Hex base stud
- 12 - 50700 10-32 Hex base stud
- 12 - 50860 6-32 Hollow thrd. stud
- 24 - 50800 10-32 Hollow thrd. stud
- 12 - 51550 Cage/Cage
- 12 - 51630 Cage/Thrd. stud
- 12 - 52210 Cage/Buss bar clip
- 1 - 40400 Crimping tool/Rod cutter
- 1 - 40436 Combo ratchet set 1/4" x 5/16"
- 12 - 45580 Transformer clip
- 12 - 52260 10-32 Hex base stud
- 12 - 52340 10-32 Spring contact



Part Number: 41812

Description: Webster terminal adapter kit #J49G9

Packaging: Sturdy hinged plastic box

Includes:

- 2 - 51550 Cage/Cage
- 2 - 52316 Binding post/Cage
- 2 - 52800 Cage/Steel contact post
- 2 - 52810 Cage/Brass contact post
- 2 - 52840 Cage/Hex base stud
- 2 - 52850 Cage/Short "A" spring
- 2 - 52860 Cage/Adapter spring
- 2 - 52920 Cage/Web



Part Number: 41815

Description: Ignition terminal & tool kit

Packaging: Sturdy hinged plastic box

Includes:

- 24 - 50000 Cage
- 24 - 50100 Spring
- 24 - 50200 Ring
- 24 - 50300 Split ring
- 24 - 50400 Angle cage
- 24 - 50450 Right angle cage
- 24 - 51000 Ferrule/Ferrule
- 100-50900 Eyelets
- 1 - Crimping tool



Part Number: TCK - 1

Description: Transformer contact kit

Packaging: Poly bag & tagged

Includes:

- 2 - 45580 Contact buss bar clips
- 2 - 60010 #10 Split lock washer
- 2 - 60999 #10 Flat washer
- 2 - 60022 10-32 Hex nut



Part Number(s):

- 41650 - 25' reel
- 41652 - 100' reel
- 41654 - 500' reel
- 41656 - 1000' reel

Description: 7mm GTO-15 cable

Packaging: Plastic or wooden reels

Includes:

- 1 - Spool of GTO-15 cable
- Our TUF-HIDE MINI SUPERFLEX®
 GTO-15 cable is made of solid thermoplastic elastomer.
 Applications include: Transformer cable leads, ignition leads, and wire connections. UL and CSA listed.



Specifications

Wire Color: Black	Voltage: 15 KVAC
Wire gauge: 14 AWG	O.D.: .270" +/- .002
Stranding: 19 x .014" bare copper	UL style: E - 135239
Insulation Thickness: .098"	CSA style: 74278
Temperature rating: 105 degrees centigrade	

Part Number(s):

- 41660 - 25' reel
- 41661 - 100' reel
- 41662 - 500' reel

Description: 7mm Silicone cable

Packaging: Plastic or wooden reels

Includes:

- 1 - Spool of silicone cable
- An advanced silicone rubber insulated ignition wiring material. Used in ovens, furnaces, air conditioning equipment and other gas fired appliances. It has been found acceptable in ignitor devices tested by the American Gas Association Laboratories. UL listed.



Specifications

Wire Color: Red	O.D.: .274" +/- .002
Voltage: 25 KVDC / 10KV / 60HZ	UL file: E - 44576
Wire gauge: 18 AWG	UL style: 3257
Stranding: 16/30 nickel plated copper	
Insulation Thickness: .113"	
Temperature rating: 250 degrees centigrade	



Our ceramic fiber rope is a twisted three-ply rope made to meet tough industrial standards, 2300 degrees fahrenheit (1260 degrees centigrade). Typical uses include gasketing, packing and sealing applications. Our rope exhibits excellent chemical stability, resisting attack from most corrosive agents. Exceptions are Hydrofluoric and Phosphoric acids and concentrated alkalis. They also resist Oxidation and Reduction. If wet by water or steam, thermal and physical properties are completely restored upon drying. No water hydration is present.

Ceramic High Temperature Asbestos Free Twisted Rope



DIA	FT. / Carton	Part Number
1/4"	45'	14FR45
1/4"	90'	14FR90
1/4"	900'	14FR900
3/8"	25'	38FR25
3/8"	50'	38FR50
3/8"	500'	38FR500
1/2"	15'	12FR15
1/2"	30'	12FR30
1/2"	300'	12FR300
5/8"	Sold per foot	58FR
3/4"	Sold per foot	34FR
1"	Sold per foot	1FR
1-1/4"	Sold per foot	114FR
1-1/2"	Sold per foot	112FR
2"	Sold per foot	2FR

Our ceramic fiber braided rope is a tightly knitted braid that keeps it's form under the most extreem applications. It won't unravel or flatten and is easy to cut. **Only sold in case lots.**

Constant operating temperature of 2300 degrees fahrenheit (1260 degrees centigrade). Typical uses include gasketing, packing and sealing applications. Our rope exhibits excellent chemical stability, resisting attack from most corrosive agents. Exceptions are Hydrofluoric and Phosphoric acids and concentrated alkalis. They also resist Oxidation and Reduction.

Ceramic High Temperature Asbestos Free Braided Rope



DIA.	FT. / Carton	Part Number
1/4"	700'	14FRB700
3/8"	400'	38FRB400
1/2"	200'	12FRB200
5/8"	350'	58FRB
3/4"	250'	34FRB
1"	125'	1FRB
1 1/4"	100'	114FRB
1 1/2"	75'	112FRB
2"	50'	2FRB

Part Number(s):

1FG18 (1" Wide X 1/8" Thick X 100' Foot Roll)
 112FG18 (1 1/2" Wide X 1/8" Thick X 100' Foot Roll)

Description: Fiberglass tape

Packaging: Corrugated carton - 100' roll.

Includes:

1 - 100' roll of one of the above selected sizes.

Flex-Tape has a temperature rating of 1000° F (538° C). Flex-Tape is a knitted fiberglass tape manufactured from textured fiberglass yarn. It contains no compounds, cement, or wire. The knitting process includes a non-fraying edge.



Applications include:

Used in ovens, furnaces and boilers as a door seal, as pipe wrapping in such applications as steam tracer lines, as tadpole tape gasket covering material, and in many other gasket and insulation applications.

Part Number(s):

48001 - 1' x 50' roll
 48002 - 2' x 50' roll
 48004 - 3' x 50' roll
 48006 - 4' x 50' roll



Description: Fiberfrax® 440J gasket paper

Packaging: Plain corrugated carton

Includes:

1 - roll of 1/8" thick 440J gasket paper of selected size. Fiberfrax® 440J paper is a commercial grade, paper made from a combination of ceramic fiber, inert fillers and fiberglass to produce an exceptionally strong sheet for use up to 704 degrees Centigrade/1300 degrees Fahrenheit. Ideal for gasketing applications. Its easy to handle and can be cut, wrapped and rolled.

Part Number: 48101

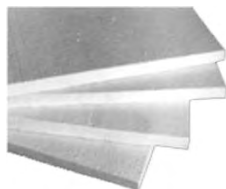
Description: Refractory boards

Packaging: Corrugated carton - 12/cs.

Includes:

12 - 1/2" thick x 2' x 3' fiberboards

Our quality fiberboard has a 2300 degree Fahrenheit continuous operating capacity. Can be used in a variety of applications, such as, furnace liners, target boards, & other furnace related applications.



Original replacement gaskets for Beckett, Carlin, & Wayne burners

The below gaskets are the original OEM gaskets for the below specified burners.

Garanteed to work in the application! For gasket specifications please contact the OEM directly.

Part Number: 100428

Description: Wayne flange gasket

Dimensions: 7 1/2" OD X 4" ID

Used in models: HS, HSR, & HSG



Part Number: 12484

Description: Wayne flange gasket

Dimensions: 7 3/8" OD X 4 5/16" ID

Used in models: EH, EASR, & EHA



Part Number: 70203 - 11 oz. caulking tube

Description: Thermeez® ceramic putty

Packaging: Bulk

Includes:

Thermeez ceramic putty is available in 11 oz. tubes, to cover a variety job requirements. Thermeez is made of a high purity, asbestos free, aluminum oxide based ceramic with a melting point in excess of 3200 degrees fahrenheit. It has a continuous service temperature of 3000 degrees fahrenheit. Use for instant repairs to brick, mortar, burner blocks, insulation, furnace holders, thermocouples, etc...just apply and let dry!.

Resistant to molten metals, most chemicals, oxidizing, and reducing atmospheres.

Cures in 24 hours at room temperature. Drying process can be accelerated by using a heat gun for emergency repairs. This product has a 8 - 12 month shelf life.



Properties

Base.....	AL203
Loss factor.....	0.017
Continuous service.....	3000°F
Melting point.....	3200°F
Density.....	40 - 50#/ft. ³
Specific heat.....	0.25 BTU/#°F
Dielectric constant @ 10 ³ CPS.....	1.61
Dielectric strength.....	100 volts/mil.
Freezing point.....	32°F
Thermal conductivity*.....	0.65
*BTU/Hr. °F ft. @ 500°F	

Part Number: 3616

Description: Beckett flange gasket

Dimensions: 8 1/2" OD X 3 15/16" ID

Used in models: Universal



Part Number: 75016

Description: Carlin flange gasket

Dimensions: 8" OD X 3 1/8" ID

Used in models: 99-101 CRD & EZ1





Replacement Burner Gaskets

We make a wide variety of generic gaskets for a variety of burners. These gaskets are made of a 1/8" thick white non-asbestos material and have a continuous operating temperature of 2300 degrees fahrenheit.

Part Number: 75000

Description: Large Miller pouch gasket

Dimensions: 16"L X 10 1/2"W

Used in models: CMF, MOC, & MGC

Miller#: 301205000



Part Number: 75007

Description: No bolt holes

Dimensions: 8"OD X 4"ID

Used in models: Universal



Part Number: 75001

Description: Small Miller pouch gasket

Dimensions: 13 5/8"L X 10"W

Used in models: MMG82

Miller#: 301181000



Part Number: 75008

Description: Utility gasket roll

Dimensions: 25 Ft. X 1" Wide

Used in models: Universal



Part Number: 75002

Description: Miller burner flange gasket

Dimensions: 6 1/2"OD X 4 1/4"ID

Used in models: CMF, & MOC

Miller#: 300001000



Part Number: 75009

Description: Carlin flange gasket

Dimensions: 12"OD X 10"ID

Used in models: 1150



Part Number: 75003

Description: Riello air tube gasket

Dimensions: 5 1/4"L X 5 1/4"W

Used in models: Universal



Part Number: 75010

Description: Carlin flange gasket

Dimensions: 11"OD X 8 3/4"ID

Used in models: 1050



Part Number: 75004

Description: Thermo Pride cover gasket

Dimensions: 4"OD X 3/8"ID

Used in models: Universal



Part Number: 75011

Description: Carlin flange gasket

Dimensions: 11"OD X 5 1/4"ID

Used in models: 801 Pressure fired



Part Number: 75005

Description: G. E. Door Gasket

Dimensions: 10"OD X 8"ID

Used in models: Universal



Part Number: 75012

Description: Carlin flange gasket

Dimensions: 10"OD X 4 1/8"ID

Used in models: 301, 501, 601 & 701 Pressure fired



Part Number: 75006

Description: Heil/Bradford/Olsen cover gasket

Dimensions: 3"OD X 2"ID

Used in models: Universal



Part Number: 75013

Description: Carlin flange gasket

Dimensions: 8 1/2"OD X 5 1/4"ID

Used in models: 801 STD





Part Number: 75014

Description: Carlin flange gasket

Dimensions: 8 1/2"OD X 4 1/8"ID

Used in models: 501, 601 & 701 STD



Part Number: 75015

Description: Carlin flange gasket

Dimensions: 8 1/4"OD X 4 1/8"ID

Used in models: 201 & 301 STD



Part Number: 75017

Description: Miller flange gasket

Dimensions: 12 13/16"L X 4 9/16"W

Used in models: MSH / Miller#: 689505



Part Number: 75018

Description: Miller flue gasket

Dimensions: 7 1/8"OD X 5 1/8"ID

Used in models: CMF, MOC & MGC

Miller#: 301195000



Part Number: 75019

Description: Miller gasket kit

Includes:

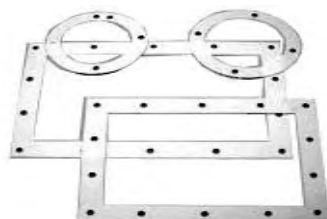
1 - 75000 (Miller# 301205000)

1 - 75001 (Miller# 301181000)

1 - 75002 (Miller# 300001000)

1 - 75018 (Miller# 301195000)

Used in models: CMF, MOC, & MGC



Do you have a special gasket requirement?
Fax in your print and quantity
requirements. We will quote to your
specifications!

Thank you for your continued patronage!

We're Crown Engineering
Corporation.....Your Single Source!

Part Number: KK100

Description: KK100 Koupling King II

Packaging: Carded w/hanger knockout

Includes:

Coupler assembled with 1/2" motor shaft end, and a 5/16" fuel unit shaft cap on the other. A 7/16" fuel unit shaft end cap is also enclosed. Over-all 5" assembled coupler length.



Part Number: KK100B-06

Description: KK100 - Bulk 6/pk.

Packaging: Poly bagged & tagged

Includes:

6 - KK100 Couplers assembled with 1/2" motor shaft end cap, and a 5/16" fuel unit end cap on the other. Also includes 6 - 7/16" end caps.

This kit will meet most coupler replacement needs. Over-all 5" assembled coupler length.



Part Number: KK400

Description: Ultra Pioneer Coupling Kit

Packaging: Flambeau utility box

Includes:

The Ultra Coupling Kit provides everything the service technician needs for instant, on-the-job burner coupling repair and replacement. Packaged in a sturdy tool box. Each kit contains:

- 10 - 12" length coupler shaft tubing
- 24 - 1/2" end caps - grey
- 16 - 5/16" end caps - green
- 8 - 7/16" end caps - orange
- 2 - 5/8" end caps - blue
- 2 - 3/8" end caps - yellow
- 1 - Torrington adapter
- 1 - Handi-Kutter tool
- 1 - 10 pk. repl. blades for Kutter



Part Number: KK112

Description: KK112 Koupling King II - 12/Pack

Packaging: Boxed in attractive carton

Includes:

Everything needed to replace almost any defective domestic burner coupler. 12 ea. 6" x 1" OD assembled couplers with 1/2" and 5/16" end caps. (Over-all 6" coupler length)

4 ea. 1/2" motor end caps

8 ea. 7/16" pump end caps

3 ea. 5/16" pump end caps



Part Number: KK120

Description: KK120 Koupling King II

Packaging: Carded w/hanger knockout

Includes:

Coupler assembled with 1/2" motor shaft end cap on one side, and a 1/2" fuel unit shaft on the other. 5" over-all coupler length. Other end cap sizes include 5/8", 7/16", 3/8", and 5/16".



OEM Ready Fit Couplers

- Ready to use on the most popular burners
- No cutting or fitting necessary
- Strong and lightweight
- 12 assembled couplers per box
- Unaffected by humidity
- Unaffected by oil and most chemicals
- Made in the U.S.A.
- Reliable



Our Pioneer brand OEM couplers are cut to the exact size for the below listed OEM models. A great way to save time on tune-ups and quick repairs.

Part Number	OEM Name	OEM Model
KK500B	Beckett	2454
KK500C	Carlin	201 - 301 CRD
KK500CA	Carlin	99RJE, 1020J, CRD 98-102
KK500CA-1	Carlin	1020 Mini pump
KK500W	Wayne	13279
KK500WA	Wayne	100386
KK500WM	Weil-McLain	QB180 & QB300

NOTE: Custom lengths are available to quote

Bulk Pioneer Coupling Tubing

Our coupler tubing is made of the same ridged urethane tubing used in our popular KK100 coupler kits. Great for making your own custom lengths.



Part Number	Tube OD	Tube Length
1T06	1"	6"
1T12	1"	12"
1T15	1"	15"
1T36	1"	36"

Part Number: HKB-10

Description: Handi-Kutter replacement blades

Packaging: Plastic container

Includes:

10 - stainless steel replacement blades.

These blades are razor sharp, so please use caution when handling them.

Blades are easy to install. Using a #2 flat screw driver remove screws holding existing blade, remove old blade, position new blade with sharp edge facing the cutting area, and secure in place with screws previously removed.



Bulk Pioneer Coupling End Caps

Our super strong plastic end caps are tough. Built to take high torque, shock starts, and stops.



Part Number	Shaft Size	Color Code
5/16	5/16	Green
3/8	3/8	Yellow
7/16	7/16	Orange
1/2	1/2	Gray
5/8	5/8	Blue

Part Number: TA

Description: Splined Hub-Adapters

Packaging: Bulk

Includes:

Four designed splines within the Hub provide for sure gripping action for quick starts. Specifically designed for use with Torrington Blowers.

Dimension are: 1" Hub Length, 1 1/8" Hub ID, 1 1/4" Hub OD, 11/16" L X 1/2" OD male connector 1 11/16" Over-all length



Part Number: HK

Description: Koupling King Handi-Kutter

Packaging: Boxed in attractive carton

Includes:

The Pioneer Handi-Kutter comes fully assembled and ready to serve all your coupler cutting needs.



Part Number: KK100HK

Description: KK100 Koupling King II & Kutter

Packaging: Poly bagged & tagged

Includes:

Coupler assembled with 1/2" motor shaft end, and a 5/16" fuel unit shaft cap on the other. A 7/16" fuel unit shaft end cap is also enclosed. Over-all 5" assembled coupler length. Our Handi-Kutter coupling cutter is also included.





B & G / Armstrong Circulator Couplers

The Original
B & G
Coupler

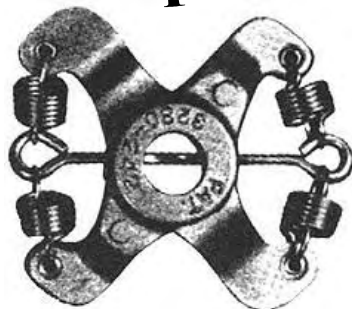


Photo	Crown Part Number	Armstrong Part Number	B & G New Part Number	Shaft Size	Type
	41100	810120-008	186410	5/8" X 1/2" ID	Iron
	41101	816665-000	118476	5/8" X 5/8" ID	Iron
No Photo	41102	806168-001	118723	1/2" X 1/2" ID	Iron
	41288	810120-006	118709	1/2" X 5/8" ID	Iron
	41289	810120-003	118473	1/2" X 1/2" ID	Iron
	41299	806026-001	118705	1/2" X 1/2" ID	Zinc
	41300	806026-001	118705	1/2" X 1/2" ID	Iron

Spring / Coiled Circulator Couplers



Photo	Crown Part Number	Description	HP Range	Type
	10010	1/2" X 1/2" ID X 1-5/16" L	1/12 to 1/3 HP	Spring / Coiled
	10023	5/8" X 1/2" X 1-7/8" L	1/2 to 3/4 HP	Spring / Coiled
	10034	5/8" X 5/8" X 2-1/4" L	1 HP	Spring / Coiled
	70010	1/2" X 3/8" X 1-7/8" L	1/12 to 1/3 HP	Spring / Coiled

Part Number: 41286C

Description: Hydronic circulator lube oil

Packaging: Bottled, labeled, and boxed

Includes:

Each case contains 36 - 2 oz. bottles of a fine blend of hydronic circulator oil. The oil contains oxidation and corrosion inhibitors for maximum protection. Each bottle features a no-drip spout for dispensing ease.



**Thank you for
your patronage!**



Woods Couplers and Rubber Inserts

The Wood's Sure-Flex® coupler can be installed quickly and easily, because there are no bolts, gaskets, covers or seals. Alignment can be checked with a straight-edged ruler placed across the outside of the precision machined flanges. No special tools are needed for installation, alignment, or removal. Sure-Flex® means no lubrication, no maintenance, and no problems!



Type J flanges size 3J and 4J are die cast of high strength Zinc alloy. Sizes 5J and 6J are made of high strength cast iron and all are finished bored to size for a slip on fit on a standard shaft. The outside diameter of the flange is machined so the surface may be used to check the alignment without a special tool.

Crown Part Number	Description
41904	3J X 1/2" Coupler End
41905	3J X 5/8" Coupler End
41903	4J X 1" Coupler End
41906	4J X 1/2" Coupler End
41926	4J X 3/4" Coupler End
41907	4J X 5/8" Coupler End
41915	4J X 7/8" Coupler End
41931	5J X 15/16" Coupler End
41919	5J X 1 1/8" Coupler End
41918	5J X 1" Coupler End
41908	5J X 1/2" Coupler End
41917	5J X 3/4" Coupler End
41909	5J X 5/8" Coupler End
41923	5J X 7/8" Coupler End
41929	6J X 1" Coupler End
41927	6J X 1 1/8" Coupler End
41930	6J X 1 3/8" Coupler End
41910	6J X 5/8" Coupler End
41928	6J X 7/8" Coupler End



JE series rubber inserts are molded one piece construction made from EPDM rubber. They are used in conjunction with any of these flanges listed.

NOTE: Other material types & styles are available.

Crown Part Number	Description
41911	3JE Rubber Insert
41912	4JE Rubber Insert
41913	5JE Rubber Insert
41914	6JE Rubber Insert
41924	7JE Rubber Insert
41916	8JE Rubber Insert
41925	9JE Rubber Insert
41920	10JE Rubber Insert
41934	11JE Rubber Insert



Type S flanges are die cast of high strength cast iron and all are finished bored to size for a slip on fit on a standard shaft. They too can be used in combination with the standard JE rubber inserts.

Crown Part Number	Description
53340	5S X 1/2" Coupler End
53341	5S X 5/8" Coupler End
53342	5S X 3/4" Coupler End
53343	5S X 13/16" Coupler End
53344	5S X 7/8" Coupler End
53345	5S X 15/16" Coupler End
53346	5S X 1" Coupler End
53347	5S X 1 1/16" Coupler End
53348	5S X 1 1/8" Coupler End
53349	5S X 1 3/16" Coupler End
53350	5S X 1 1/4" Coupler End
53368	7S X 3/4" Coupler End
53369	7S X 7/8" Coupler End
53370	7S X 15/16" Coupler End
53371	7S X 1" Coupler End
53372	7S X 1 1/16" Coupler End
53373	7S X 1 1/8" Coupler End
53374	7S X 1 3/16" Coupler End
53375	7S X 1 1/4" Coupler End
53376	7S X 1 5/16" Coupler End
53377	7S X 1 3/8" Coupler End
53378	7S X 1 7/16" Coupler End
53379	7S X 1 1/2" Coupler End
53380	7S X 1 5/8" Coupler End
53381	7S X 1 7/8" Coupler End
53388	8S X 1 1/4" Coupler End
53397	8S X 1 7/8" Coupler End

Part Number(s):

41411-48 (Specs. 2 3/4" OD x 3/4" ID x 3" Long)

41412-24 (Specs. 3 1/4" OD x 3/4" ID x 4" Long)

41416-48 (Specs. 2 3/4" OD x 1" ID x 3 5/8" Long)

Description: Clean Flow - Rayon replacement filters

Packaging: Poly bagged & corrugated carton

Includes:

Rayon filter elements individually packaged with gaskets.

Dash numbers indicates number of filters per carton.

Our "CLEAN FLOW", Rayon filter is a solid one piece construction...no felt fibers, or strings to hamper the oil flow.

41411-48 for use in

Autoflo F-300

Federal A77

General 1A-25A

Sid Harvey XF-25/264

Unifilter 77

Westwood S-254



**Clean Flow
Rayon Filters**

41412-24 for use in

Autoflo F-400

General 2A-700A

Sid Harvey XF-1

Unifilter 99

Westwood S-252

Characteristic's

Color	White
Surface Are, in2	52
Volume, in3	12
Firing Rate, GPH	10
Clean Press. Drop	0.4
Dirt Capacity, oz.	1.4
Ending Press. Drop	10.00
Filtration Depth	Medium
Micron Range	25 to 50

41416-48 for use in

Fulflo F-B4, AS-4, & B-4

Part Number:

41420-12 (Replaces General 2A-700A)

Description: Felt filter elements

Packaging: Individually bagged with gaskets

Includes:

12 - Individual filters with gaskets.

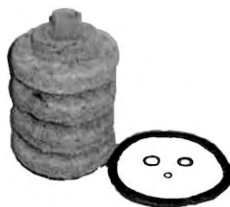
Made for domestic fuel oils. Made of

felt discs. This 40 micron rated filter

removes impurities that might hamper the

burner's operation.

**Filtering Felt
Filters - 12 Pk.**



Part Number:

41418-30 (Replaces Fulflo FB-6")

41419-30 (Replaces Fulflo FB-8")

41421-30 (Replaces Fulflo FB-10")

Description: String Cotton filter elements

Packaging: Bulk & corrugated carton

Includes:

30 - Individual filters **WITHOUT** gaskets.

Made for domestic fuel oils. Made of all

wool string. This 40 micron rated filter

removes impurities that might hamper the

burner's operation.

**Wool Brand
Filters - Bulk**



Part Number:

41418-06 (Replaces Fulflo FB-6")

41419-06 (Replaces Fulflo FB-8")

41421-06 (Replaces Fulflo FB-10")

Description: String Cotton filter elements

Packaging: Bulk & corrugated carton

Includes:

6 - Individual filters **WITHOUT** gaskets.

Made for domestic fuel oils. Made of all

wool string. This 40 micron rated filter

removes impurities that might hamper the

burner's operation.

**Wool Brand
Filters - 6 Pk.**



Part Number (s):

41440 (individual filter)

41440-12 (case of 12 filters)

Description: Wix filter elements

Packaging: Individually boxed

Includes:

1 - boxed filter or

12 - boxed filters in a master carton.

Heating Units, Small Engines & Steam Jennies

This spin-on filter provides effective filtration for a

number of applications. The steel housing is strong and

durable while the paper filter element delivers a clean

supply of fuel for faultless combustion.

UL Recognized strainer for #2 oil or lighter.

10 MICRON



UL file: MP2569
UL style: 24104

- Dimensions 4 1/2" Hgt. X 2 5/8" OD
- Maximum flow rate is 6 GPH
- Compact design
- Micron rating is 10

NEWLY DESIGNED WITH THE SERVICE PERSON IN MIND

Our newly designed Quick Spin II filtration system is now better than ever! It's the filter style of the future with our new triple leak protection shell that is tin plated carbon steel, epoxy coated, and an internal plastic base to prevent rust-out bottoms that other comparable filters are prone to. As always our triple leak protection filter head is made of casted aluminum and incorporates a post gasket seal, a ridged rim that grips the seal gasket, and an outer lip that encloses the entire unit...safety first! And don't forget the practical benefits like a flat bottom, so your can doesn't spill oil all around the floor and the feature the service folk love most, our plastic lid to snap over the top of the used oil can, so it doesn't leak all over your truck! Our wholesale distributor's like the flat bottom design because they stack easily and our kit variety means they can offer a wider range of filtering combinations to meet their customers needs. To top it off our Quick Spin II filtration system is UL listed for use in the USA and Canada with superior 10 micron filtration that effectively removes rust, scale, and other microscopic impurities that might hamper burner operation.

Filter Characteristic's for 41439

Canister type.....	Carbon steel, tin plated & epoxy coated	Melting point.....	1100°F
Certification.....	UL & CUL Listed	Micron Rating.....	10
Dimensions.....	4 5/8" H x 3 7/16" DIA	Rated flow rate.....	25 USgph
Filtering area.....	550 square inches	Rated work psi.....	12 P.S.I.
Filtering media.....	Resin treated cellulose	Rated work temp.....	Up to 140°F
Max. working psi.....	35 P.S.I.	UL file number.....	MH 25548
		UL Style.....	41439

Our 41439 Filter Replaces or fits:

Crown: Quick-Spin I & II

Garber: 11V-R

Mitco: 290M and 264-91M

Nozzle Guard: NG-3300-G

Sid Harvey: 290-6 and 264-91

Westwood: F100-10

Wix: 24100



UL file: MH25548
UL Style: 41439

UL listed for use in USA and Canada



Part Number: 41436-06

Description: Replacement element only (80000850)

Packaging: Individually shrink wrapped w/gasket & 6 on a tray

Includes:

6 - Individual wrapped filter elements with "O"-ring post gasket. Designed for superior filtration, 10 micron!
Our Quick Spin II replaces Gar-Ber's® R cartridge and mounts on existing Gar-Ber® heads, or you can use our own (see part number 41437).



UL file: MH25548
UL Style: 80000850

Part Number: 41436K


Description: Spin on filter - Complete System

Packaging: Individually boxed

Includes:

- 1 - Filter element
- 1 - Mounting head
- 1 - Mounting bracket with hardware
- 1 - Vacuum gauge 0 - 30 hg, 1/8" NPT



 UL file: MH25548
UL Style: 41439

Part Number: 41436G


Description: Filter System less bracket

Packaging: Individually boxed

Includes:

- 1 - Filter element
- 1 - Mounting head
- 1 - Vacuum gauge 0 - 30 hg, 1/8" NPT



 UL file: MH25548
UL Style: 41439

Part Number: 41436M


Description: Filter System less gauge

Packaging: Individually boxed

Includes:

- 1 - Filter element
- 1 - Mounting head
- 1 - Mounting bracket with hardware



 UL file: MH25548
UL Style: 41439

Part Number: 41439-06


Description: "Quick Spin II," Spin on filter - Elements with head

Packaging: Shrink wrapped on a tray

Includes:

- 6 - filter elements with 6 head mounts & post gaskets
- Effectively removes rust, scale and other microscopic impurities that might hamper the burner's operation.



 UL file: MH25548
UL Style: 41439

Part Number: 41403

Description: Spin on filter mounting bracket

Packaging: Individually bagged & tagged

Includes:

- 1 - mounting bracket with hardware.
- Our steel zinc plated bracket will stand up to a variety of hostile environments and vibrations.



Part Number: 41437

Description: Spin on head mount only

Packaging: Individually bagged & tagged

Includes:

- 1 - filter head mount - with plugged gauge port.
- The "Quick Spin II," head mount is made of casted aluminum. The head includes two 3/8" NPT, inlet & outlet ports and a 1/8" NPT gauge port, loc-tight sealed and plugged (vacuum gauge not included).



Part Number (s):

- 41402 - Vacuum gauge (0 to -30" Hg. - 1/8" NPT)
- 41404 - Pressure gauge (0 to 30 PSI - 1/8" NPT)
- 41405 - Pressure gauge (0 to 300 PSI - 1/4" NPT)
- 41406 - Vacuum gauge (0 to -30" Hg. - 1/4" NPT)

Description: Vacuum and pressure gauges

Packaging: Individually Boxed

Includes:

- 1 - vacuum gauge or 1 - pressure gauge from the above list
- Our vacuum & pressure gauges features a easy to read 2" face, is made of high impact acrylic bezel, with a 1/8" or 1/4" NPT bottom mount. Can be used in a variety of applications.





Our oil lines are made of genuine **Mueller Streamline®** dehydrated and nitrogen purged sealed copper tubing. It is of a consistent dead soft temper, bright, and thoroughly dried. A cleaning and drying process removes moisture and contaminants and is manufactured in accordance with ASTM-B-280 and ANSI-B9.1 refrigeration industry standards. We do the field work for you...we cut, add flair nuts, flair each open end, & package. We offer a variety of lengths to meet your needs!

Crown Part Number	Dimension	Form
40449	3/16" Dia. x 16" Long	Straight
40450	3/16" Dia. x 5" Long	Straight
40451	3/16" Dia. x 8" Long	Straight
40452	Weil McLain Oil line	644-000-064
40454	3/16" Dia. x 12" Long	Straight
40455	3/16" Dia. x 16" Long	Coiled
40456	1/4" Dia. x 16" Long	Straight
40457	1/4" Dia. x 16" Long	Coiled
40458	1/4" Dia. x 12" Long	Straight
40461	1/4" Dia. x 8" Long	Straight
40463	1/4" Dia. x 5" Long	Straight
40459	3/16" x 1/4" M/F	Reducer M/F
63454	#41 - 3/16 Standard	Flare nut
63456	#41 - 1/4 Standard	Flare nut



Part Number: 40360

Description: Miller oil line kit

Packaging: Poly bagged & tagged

Includes:

- 1 - 13494 elbow adapter
- 1 - 40459 flare reducer
- 1 - 40361B 3/16" Dia. X 7" Long oil line
- 1 - 40362B 3/16" Dia. X 11" Long oil line
- 1 - Instruction sheet

This convenient kit has everything you need to update a variety of Wayne burners, as well as, Miller mobile gun furnaces equipped with power oil burners.



Part Number (s):

45674 (Pkg. of 4 strainers with gaskets)

45676 (Individually boxed with gasket)

Description: Model "J,H,S," pump strainers

Packaging: Various

Includes:

Strainer and matching gasket as specified above. Made of stainless steel mesh, attached to sturdy nylon ends for long lasting support. Our ribbed design insures maximum filtration. Used in Suntec models J and H pumps.



Part Number: 40470

Description: Silent Flow Anti-Hum Device

Packaging: Individually boxed

Includes:

- 1 - Silent flow with 1/2" adaptor spring.

For use on all domestic type pressure atomizing oil burners. Silent flow includes a 1/2" adapter for use with 1/2" Dia. copper tubing and an easy to follow instruction sheet. Simple to install and effective in reducing oil line noise.



Part Number (s):

45675 (Pkg. of 4 strainers with gaskets)

45678 (Individually boxed with gasket)

Description: Model "A" pump strainers

Packaging: Various

Includes:

Strainer and matching gasket as specified above. Made of stainless steel mesh, attached to sturdy nylon ends for long lasting support. Our ribbed design insures maximum filtration. Used in Suntec model A70 pumps.



Part Number:

40676 (Pkg. of 6 gaskets)

60676 (Bulk gaskets - you specify quantity)

Description: Model "J,H,S" pump strainers - gasket only

Packaging: Poly bagged & tagged

Includes:

Strainer gaskets as specified above.

Your the boss at Crown! You can choose from a standard pkg. of 6 gaskets or you can buy them bulk in the quantities you want. Our gaskets are impervious to oil, and insure a tight seal.

Used in Suntec models J and H pumps.



Part Number (s):

40678 (Pkg. of 12 gaskets)

60678 (Bulk gaskets - you specify quantity)

Description: Model "A" pump strainers - gasket only

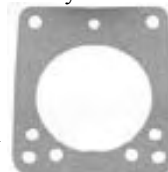
Packaging: Ploy bagged & tagged

Includes:

Strainer gaskets as specified above.

Your the boss at Crown! You can choose from a standard pkg. of 12 gaskets or you can buy them bulk in the quantities you want. Our gaskets are impervious to oil, and insure a tight seal.

Used in Suntec model A pumps.



TUV Tested Flow Control® de-aerator

Part Number: 43000 - TUV Tested Flow Control®

Description: Flow Control® de-aerator

Packaging: Individually boxed

Includes:

1 - Flow Control® de-aerator & hardware

1 - Installation instructions

Flow Control® is a unique product that allows for the safest possible transport of oil between the oil tank and the oil burner. Incorporating the advantages of the two pipe system in only one oil line. Prevent break-downs before they occur due to air, dirt, and nozzle clogging. This product works!



NEW

TUV

Look at all the advantages

- ♦ Fewer breakdowns ♦ No return line leakage ♦ Less soot build-up ♦ Simpler and cheaper installations ♦ Cleaner exhaust gases
- ♦ Smaller pipe dimensions ♦ Lower oil consumption ♦ Easier trouble spotting ♦ More burners on one suction line ♦ Fewer problems with suction leakage and long oil lines ♦ Pre-heated oil

Technical Data:

Max. nozzle capacity: 18.5 GPH

Max. return oil pumped: 37 GPH

Max. oil flow: 50 GPH

Separating capacity: Up to 4 l/h

Max. ambient temp.: 140°F (60°C)

Max. operating temp.: 140°F (60°C)

Operating suction pressure: 7.5 psi max.

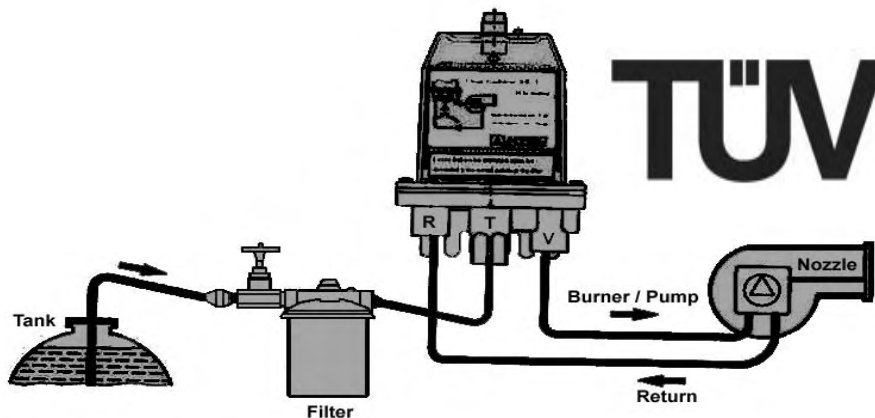
Operating over pressure: 10 psi max.

Pressure test of pipe system: 85 psi max.

Pump connections: 1/4" NPT inner thread

Tank connection: 1/4" NPT inner thread

Dimensions: 3.74" X 3.74" X 5.73"



TUV

Part Number: 43003

Description: Firomatic® Fusible Valve

Packaging: Poly bagged & tagged

Includes:

1 - Firomatic® Fusible Valve Designed to automatically close when acted upon by heat of 165° F, manufactured primarily for oil burner installations. This valve has been designed with the fusible element in the handwheel, simply replace the low cost handwheel to reset and restore the valve, eliminating the need to replace the valve. These valves can be operated manually and are provided with self-adjusting stuffing box and back seat features, which prevents leaks at the valve stem.



3/8" (F) NPT

1/4" (m) NPT

Part Number:

43005 - 24" L x 1/2" Flexible Hose

43006 - 36" L x 1/2" Flexible Hose

Description: Flexible Steel Zinc Plated Braided Hose

Packaging: Poly bagged & tagged

Includes:

1 - Flexible hose from above list with 2 adaptor fittings
 These hoses have a 1/4" NPT fittings on both ends, for expediting the installation of the Tigerloop® or Flow Control® de-aerator. Made from Perbunan rubber (inside), which is impervious to oil, water and air. This product has a diversity of uses.

Extra adaptors are available, our P/N: 43009

Specifications

Pressure rating: 143 psi
 Max. Operating Temp: 165° F
 Max. Flow Rate: 20GPH
 Suction: 6 Bar



NOTE: Fits or replaces Buderus #108902

Part Number: 43020 - 36" L x 1/2" Flexible Hose

Description: Flexible Steel Zinc Plated Braided Hose

Packaging: Poly bagged & tagged

Includes:

1 - Flexible hose from above list with 2 adaptor fittings
 We are proud to introduce our new 36" long galvanized blue braided hose.

This hose features:

(2) 3/8" female flare swivel ends to accommodate swinging door burner installations and hose replacement.

-No more hose twisting!

-Inside flare ensures a snug fit.

-Swivel ends make installation simple.

-Tested by the manufacturer to meet industry standards.



Part Number (s):

OSVA38 - 3/8" Oil Safety Valve

OSVA50 - 1/2" Oil Safety Valve



UL file: MH10129
 UL Style: OSV38 & 50

Description: Webster® Oil Safety Valves

Packaging: Individually boxed

Includes:

1 - Webster® oil safety valve from above list

The Webster® oil safety valve is ideal for use in oil supply systems which have from zero to 60 psi supply line pressure on the inlet side of the valve, but requires a sustained vacuum on the outlet side of the valve for the fuel to flow to the burner pump. This unit is UL Listed for #2 fuel oil or lighter at 60 psi maximum inlet pressure.

Look at all the advantages:

Relieves pressure strain on fuel pump inlets

Prevents siphoning of fuel tanks

Prevents spilling due to accidental line breakage

Use OSVA38 for 3/8" pipe & ports 3/8 - 18 NPTF

Use OSVA50 for 1/2" pipe & ports 1/2 - 14 NPTF





Part Number (s):

100APF - 3/8" NPT(f) VALVE
 105APF - 3/8" FLARE VALVE
 141TF - 1/2" NPT(m) X 3/8" NPT(m) TANK VALVE
 B100CV - 3/8" NPT(f) CHECK VALVE
 B100F - 3/8" NPT(f) VALVE
 B100L - 3/8" NPT(f) LEVER VALVE
 B104CF - 3/8" FLARE X 1/4" NPT(m) X 1 5/8" LONG SHANK ANGLE VALVE
 B104CFXL - 3/8" FLARE X 1/4" NPT(m) X 2" LONG SHANK ANGLE VALVE
 B105HCV - 3/8" FLARE CHECK VALVE
 B105F - 3/8" FLARE VALVE
 B200CV - 1/2" NPT(f) CHECK VALVE
 B200F - 1/2" NPT(f) VALVE
 B200L - 1/2" NPT(f) LEVER VALVE
 B204CF - 1/2" FLARE X 1/4" NPT(m) X 1 5/8" LONG SHANK ANGLE VALVE
 B205APF - 1/2" FLARE ALL PURPOSE / ANTI-HUM VALVE
 B205F - 1/2" FLARE VALVE
 B300F - 3/4" NPT(f) VALVE
 B400F - 1" NPT(f) VALVE
 HW165 - 165° F REPLACEMENT HAND WHEEL - "SILVER"
 HW200 - 200° F REPLACEMENT HAND WHEEL - "COPPER"

Description: Firomatic® Fusible Valves

Packaging: Poly bagged & tagged

Includes:

1 - Firomatic® Fusible Valve from above list

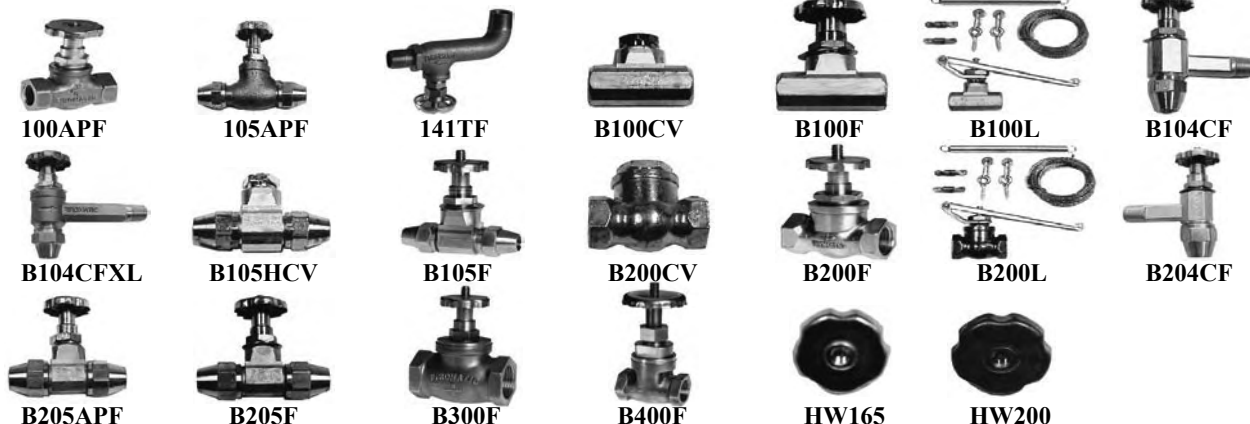
Designed to automatically close when acted upon by heat of 165°F, unless otherwise specified. These valves has been designed with the fusible element in the handwheel, simply replace the low cost handwheel to reset and restore the valve, eliminating the need to replace the valve. These valves can be operated manually and are provided with self-adjusting stuffing box and back seat features, which prevent leaks at the valve stem. Valve bodies are made of machined brass or cast bronze to reduce the erosion caused by fuel oil. The other internal parts are designed for long life and dependability. The best in it's class! All the fusible valves up to 1/2" NPT are UL listed!

Firomatic®
 Products



UL file: MH4681
 UL Style: Series 50, 100,
 & 200 Firomatic valves.

UL listed for use in USA and Canada





Part Number: 1002FD

Description: Valker® Fast Drying De-greaser

Packaging: Corrugated carton - sold in case lots only.

Includes:

12 - 16 oz. aerosol cans per case.

This dielectric, non-flammable solvent is fast drying, and ideal for de-greasing small mechanical parts, fans, electric motors, and equipment. Removes grease and oil from hard to reach places. It can even be used as a spot remover.



Part Number: 2001CF

Description: Valker® Chem Flush - 1

Packaging: Corrugated carton - sold in case lots only.

Includes:

12 - 20 oz. aerosol cans per case.

Chem-Flush - 1 opens fuel lines that are plugged due to ice and sludge build-up. Chem flush - 1 can also be use to clean the filter pump and nozzle strainer when used as a full maintenance or tune-up product. Therefore, greatly reducing the number of service calls due to plugged fuel lines during the heating season.



Part Number: 2007CV

Description: Valker® Chem Flush Valve

Packaging: Bulk - sold per each.

Includes:

1 - Chem flush valve.

The Chem-Flush - 1 valve is required when using Chem-Flush - 1 aerosol P/N: 2001CF. The valve consists of a dispensing cap, flow sight tube, pressure gauge, pressure relief valve with a threaded portion for easy adaption of a standard CO² gun.



Part Number: 2008CT

Description: Valker® Sight tube with cap

Packaging: Poly bagged & tagged

Includes:

1 - Replacement sight tube

This replacement sight tube is used in the Chem-Flush valve.

They are sold per each.



Part Number(s):

12-7300 (Large rectangular)

12-7400 (Large round)

12-7500 (Small rectangular)

Description: Telescoping inspection mirrors

Packaging: Poly bagged & tagged

Includes:

1 - Mirror from above selection with extension handle.

Ideal for inspecting burner flame and inside chamber liners. Features three section telescoping action. 29-31" maximum extension. Swivel joint permits viewing from any angle. Mirror is made of highly polished stainless steel for maximum strength.

Caution: Mirror should not be held directly in path of flame. Safety first!



Part Number: 12-EL26

Description: Telescoping pocket lighter

Packaging: Poly bagged & tagged

Includes:

1 - Telescoping lighter tool. Safety first!

Whether a gas or oil manual ignition test don't get caught without one of these. Light furnaces of all kinds from a safe and comfortable distance. Our lighter extends to 26", for burn free lighting. Our tool also features a pocket clip, and a bright nickel plated finish.



Part Number: 12-EM18

Description: Telescoping pocket magnet

Packaging: Poly bagged & tagged

Includes:

1 - Telescoping magnet tool.

This handy device is a life saver in recovering dropped parts in hard to reach areas, with limited space. A necessity for any tool box. Tool features include a pocket clip, 18" extension reach, and a bright nickel plated finish.



Part Number: 12-R15

Description: Adjustable fin comb tool

Packaging: Poly bagged & tagged

Includes:

1 - Stainless steel fin comb tool

This multi-purpose maintenance tool scrapes away grease, carbon, paint, dirt, and rust on condenser and evaporator coil fins. Automatically adjusts to fit almost all surfaces. Ideal for working with steel, copper, and aluminum. New Comfort Grip!



Part Number: 12-R6

Description: Six-in-one fin comb tool

Packaging: Poly bagged & tagged

Includes:

1 - Fin comb wheel

1 - Fin comb handle with nut & washer

This tool is a real money saver. Cleans and straightens six different varieties of condenser and evaporator coil fins. Use on 8", 9", 10", 12", 14", and 15" fins per inch sizes. Small, compact, and easy to use in confined spaces.



Part Number(s):

12-T180 (Temp. range -40 to 160 degrees Fahrenheit)

12-T220 (Temp. range 0 to 220 degrees Fahrenheit)

Description: Pocket dial thermometer

Packaging: Poly bagged & tagged

Includes:

1 - Pocket thermometer of choice with casing

Used in a variety of applications: Heating, AC, Refrigeration and Laboratory use to mention a few. This tool features a unbreakable lens, 5" stem, protector sleeve with clip. The pocket clip also holds the thermometer in place.

■ **Unbreakable Lens**

■ **Pocket Protector with Clip**

■ **Recalibrated Feature for Accuracy**

■ **Built-in Holder**

■ **A Variety of Applications**



Part Number: 12-T302 (Temp. range)

Description: Digital pocket dial thermometer

Packaging: Shell packaged for display

Includes:

1 - Digital Pocket thermometer & casing

Used in a variety of applications: Heating, AC, Refrigeration, food and Laboratory use to mention a few.

This tool features a flat edge non-roll case, stainless steel 5" stem, large display, on/off switch, instant one second update. It has a temperature range of -40 to 302 degrees Fahrenheit and switchable to -40 to 150 degrees Centigrade. The protector sleeve has a pocket clip that also holds the thermometer in place and comes with a spare battery to boot



Part Number: 12-T3N1

Description: 3 in 1 telescoping tool kit

Packaging: Plastic pouch & hang card

Includes:

1 - Telescoping kit This kit does the job of three different tools! It includes a 26" telescoping handle, a 2" OD round mirror attachment, a match holder attachment, and a magnet attachment. Each attachment screws on and off as needed. All packaged in a re-usable plastic pouch and at a reasonable price!

**3 TOOLS
IN 1**



Part Number: 40400

Description: Terminal crimping tool

Packaging: Poly bagged & tagged

Includes:

1 - Terminal crimping tool in poly bag

Our tool is lightweight, and economical.

This multi-purpose tool is made for durability.

Handles are plastic coated for comfort.



- Four Tools In One -

- Bolt cutter - Wire cutter - Crimper - Wire stripper

Part Number: 40405

Description: Heavy duty terminal crimping tool

Packaging: Poly bagged & tagged for display

Includes:

1 - heavy duty, parallel action wire cutting, and terminal crimping tool. 8" overall length for maximum leverage. Handles are plastic coated for comfort.



Part Number:

40417 (for 1 soot kutter)

40417-12 (for 12 soot kutters)

Description: Soot kutter

Packaging: Poly bagged & tagged for display

Includes:

1 - Soot kutter or 1 - 12 pk. of soot kutters

Our Soot Kutter is specially designed for easier clearing of soot build-up in most narrow passage boilers. Effectively breaks up hardened carbon deposits. Handle is plastic coated for comfort.

Soot Kutter!



32" Over-all length

Part Number: 40420

Description: Porcelain & gauge glass cutter

Packaging: Poly bagged & tagged

Includes:

1 - Tool with cutting chain.

Designed for cutting insulators and gauge glass in the field. Simple to use, as a pair of pliers. Plastic coated handles for comfort grip.

Replacement chains are available ask for P/N 40422

Squeeze & Pop!



Part Number(s):

40428 (Standard blowout gun)

40429 (Gun with 150 psi safety valve)

Description: Blowout gun

Packaging: Poly bagged & tagged

Includes:

1 - Blowout gun and instruction sheet.

Our blowout gun uses a CO² cartridge (sold separately) and incorporates a 1/4" NPT female connection, that can be adapted to other fittings. It is intended for use in blowing out clogged lines that are vented beyond the restricted point to the atmosphere. It should not be used in a closed end line.

Applications include fuel oil lines, machine lubrication systems, instrument transmission lines, and hydraulic pipelines.

The blowout gun with the built in check valve allows the user the ability to remove used CO² cartridges without pressure line loss. You can then add additional CO² cartridges as needed, up to 150 psi.

Replacement O-rings are available ask for P/N: 40427-10



40428



40429

Part Number: 40430

Description: Electrode tip benders

Packaging: Poly bagged & tagged

Includes:

2 - Tip benders.

Made of steel with a plated finish. Used for bending and adjusting electrode and igniter tips, this lightweight tool is pocket size and easy to use. One end accommodates 1/8" tips and the other 3/32" tip. A must to take on every service call.



Part Number: 40436

Description: Ratchet box wrench

Packaging: Poly bagged & tagged for display

Includes:

1 - Ratchet combo box wrench

Made of steel with a plated finish. Our ratchet wrench accommodates a 1/4" hex and a 5/16" hex. Pocket size and easy to use.



Part Number(s):

40431 (Control Blast - only)

40431K (Control Blast with 3 - 12g cartridges)

40432K (Control Blast with 3 - 16g cartridges)

Description: Control Blast blow-out gun

Packaging: Poly bagged & tagged

Includes:

1 - Control Blast gun or kits from above list

We are proud to introduce our new Control Blast blow out gun.

Crown puts you in control with our new trigger activated blow out gun and our new bigger and better 12 or 16 gram CO² cartridge.

Together they supply the "control" and power "blast" you need to get rid of stubborn oil line clogs.

Advantages

⇒Do multiple jobs with one cartridge.

⇒Accommodates larger 12g or 16 cartridge.

⇒Trigger control gives you control over how much power you need.

⇒Red safety lock allows for tool box storage without leaking.

⇒Sturdy and durable plastic casing.

⇒Light weight.

⇒1/4" tapered FNPT oil line adaptor.

Control Blast



40431



40431K



40432K

**THE NEW WAY TO
CLEAR CLOGGED
OIL LINES!**

Electrode Setting Gauges

Crown carries a full line of specialty setting gauges for Beckett, Carlin, and Wayne burners so that you get a perfect spray pattern every time you set an electrode. Why chance an unnecessary call back?. Set it right the first time with our original line of O.E.M. electrode setting gauges. But that's not all! Use Crown's universal electrode setting gauge if a specialty gauge is not available. It's quick and easy to use for setting all spray patterns!

Crown Part Number	For Model Number	O.E.M. Name
40441	AF, AFG, SR, SF & AF II with F & FB retention heads	Beckett Z Gauge
40442	SR Series Burner	Wayne
40443	AF, AFG, SR, & SF	Beckett
40444	Blue Angel HS	Wayne
40445	All Models	Various
40447	99-102	Carlin
40448	Elite	Carlin



40441



40442



40443



40444



40445



40447



40448

Part Number(s):

40490 (10 - 8gram cartridges per box)

40490-12 (12 - 10 pk. boxes per case)

40490-36 (36 - 10 pk. boxes per case)

Description: CO² cartridges

Packaging: Boxed

Includes:

1 - Of the above CO² charger combinations above.

Intended for use in blowing out clogged oil lines with our blow out gun 40428 or 40429, this product can be used in a variety of applications ranging from making seltzer water to use in CO² bb-guns.



Part Number(s):

40492-06 (6 pack - 12 gram CO² cartridges)

40494-06 (6 pack - 16 gram CO² cartridges)

Description: CO² cartridges

Packaging: Poly bagged & tagged

Includes:

1 - Of the above CO² charger combinations above.

Intended for use in blowing out clogged oil lines with our blow out gun 40431 Control Blast. this product can be used in a variety of applications ranging from making seltzer water to use in CO² bb-guns.



Part Number(s):

40630 (12" test leads)

40632 (30" test leads)

Description: Test leads

Packaging: Poly bagged & tagged

Includes:

2 - 12" leads, one red, one black or

2 - 30" leads, one red, one black.

Our test leads are coated with a soft flexible vinyl cover. Our leads feature protector boots for added protection against accidental shock. Tips are of a ragged tooth design for maximum electrical contact.



LOW VOLTAGE

Part Number: 40634

Description: Test leads

Packaging: Poly bagged & tagged

Includes:

1 - 8' test lead with red & black split.

Made of flexible rubber insulation this test cord features 20 amp. test clips, color coded vinyl insulators for shock protection, and jagged edged jaws for a positive connection.



120 volt

Part Number: 695

Description: Lineman's strip n' crimp pliers

Packaging: Poly bagged & tagged

Includes:

1 - Lineman's wire stripper and crimper

This tool gives you all the benefits of a standard lineman's pliers plus wire stripping and terminal crimping features.

A must have for the tool box!



Strip N'Crimp!

Part Number: C-201

Description: Nozzle wrench

Packaging: Boxed

Includes:

1 - Nozzle wrench with instructions.

Our nozzle wrench is safe and easy to use.

Knurled handles provide a sure grip, even with oily hands. The finest of it kind available!



Part Number: PTK-9183

Description: Pump test kit

Packaging: Sturdy plastic case

Includes:

1 - Manifold

1 - Vacuum gauge

1 - Pressure gauge

1 - 1/8" NPT X 1/2" hex adapter

1 - 1/4" NPT X 1/2" hex adapter

1 - 6" Clear flexible hose w/fittings

1 - Instruction sheet

Our pump test kit preforms a variety of tests.

Benefits include the ability to trouble shoot pump failure, valve failure, and vacuum leaks all in one convenient kit.



Test Applications

- Operating Pressure Test
- Cut-Off Test
- Vacuum Test - Lift Application
- Vacuum Test - Fuel Unit

AQUASTAT IMMERSION WELLS

Replacement Wells for Honeywell and White Rodgers. Sturdy brass and copper construction for long service life.



Part Number	Description	Honeywell Part Number
PMW-2S	1/2" Standard	121371 A
PMW-2SE	1/2" Extended	121371 L
PMW-3S	3/4" Standard	121371 B
PMW-3SE	3/4" Extended	121371 M

Part Number: SW1

Description: Silicone Tape

Packaging: Poly-bagged & tagged

Includes:

1 - roll 1" W x 12 Yard x .020 thick Silicone tape.

This product has thousands of uses. It has 300% elongation stretch capacity. It fuses to itself to form an inseparable bond after 24 hours at room temperature and is water resistant. A great low cost seal in electrical insulation, splicing, and wire wrapping applications. 500° F continuous temperature rating.



Last minute additions!

Part Number: 40424

Description: Plier Style - Gauge Glass Cutter

Packaging: Poly-bagged & tagged

Includes:

1 - Gauge glass cutter

The plier style gauge glass cutter offers good leverage on scoring the glass tubing by a conventional means that most mechanics are familiar with.



Part Number: 40425

Description: Squeeze Rod Style - Gauge Glass Cutter

Packaging: Poly-bagged & tagged

Includes:

1 - Gauge glass cutter

Works similar to the plier style gauge glass cutter. It to offers good leverage on scoring the glass tubing by a means squeezing flexible rods together.



Part Number: WP-1

Description: "W" Gauge glass cutter

Packaging: Poly-bagged & tagged

Includes:

1 - Gauge glass cutter

This "W" shaped gauge glass cutter offers good leverage in that the mechanic can really lean into the score with their body weight making for deep cuts and easy tap & snap secondary process.





Marvel® Gauge Glass Washers

What makes these washers different from others is it's patinent molded lip design that ensures a sure seal. Made of standard EPDM rubber that can withstand up to 150 psi and 300° F constant pressure and temperature enviornments with outstanding longevity. The Marvel washers are sold in packages of 12 or individually.

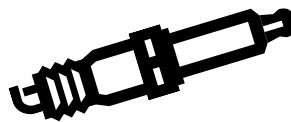


Marvel® Gauge Glass Washers

Part Number	Size of Glass	OUTSIDE DIMENSIONS	
		DIA.	DEPTH
GGW#01-12	1/2"	13/16"	9/32"
GGW#02-12	1/2"	7/8"	1/2"
GGW#03-12	5/8"	7/8"	9/32"
GGW#04-12	5/8"	1"	9/32"
GGW#05-12	5/8"	1-1/8"	3/8"
GGW#06-12	3/4"	1-1/16"	9/32"
GGW#07-12	3/4"	1-1/4"	13/32"
GGW#08-12	3/4"	1-5/16"	13/32"
GGW#09-12	5/8"	15/16"	9/16"
GGW#10-12	3/4"	1-7/16"	13/32"
GGW#11-12	3/4"	1-3/16"	13/32"
GGW#12-12	9/16"	27/32"	19/32"
GGW#13-12	5/8"	15/16"	9/32"
GGW#14-12	3/4"	1-1/8"	3/8"
GGW#15-12	3/4"	1-1/16"	1/2"
GGW#16-12	3/4"	1-5/16"	5/8"
GGW#17-12	3/4"	1-1/8"	5/8"
GGW#18-12	9/16"	1-3/32"	1/2"
GGW#19-12	9/16"	13/16"	9/32"
GGW#20-12	11/16"	1"	9/32"
GGW#21-12	1/2"	7/8"	3/8"
GGW#22-12	3/4"	1-1/4"	1/4"
GGW#23-12	3/4"	1-1/4"	3/4"
GGW#24-12	3/4"	1-3/32"	13/32"
GGW#25-12	5/8"	1"	15/32"
GGW#26-12	1"	1-5/8"	1/2"
GGW#27-12	7/8"	1-3/8"	13/32"
GGW#28-12	1/2"	1"	3/8"
GGW#29-12	1/2"	1"	5/16"

Marvel® Gauge Glass Washers

Part Number	Size of Glass	OUTSIDE DIMENSIONS	
		DIA.	DEPTH
GGW#30-12	3/8"	13/16"	1/4"
GGW#31-12	3/4"	1"	3/8"
GGW#32-12	3/4"	1-3/8"	1/4"
GGW#33-12	3/4"	1-1/8"	1/2"
GGW#34-12	1/2"	1-7/16"	3/8"
GGW#35-12	5/8"	1-15/16"	13/32"
GGW#36-12	1-1/4"	1-7/8"	1-15/16"
GGW#37-12	5/8"	1-1/4"	1/2"
GGW#38-12	1"	1-1/2"	1"
GGW#39-12	3/4"	1-1/8"	7/16"
GGW#40-12	31/32"	1-3/4"	3/8"
GGW#41-12	3/4"	1-3/8"	3/8"
GGW#42-12	11/16"	1-3/16"	7/16"
GGW#43-12	3/4"	1"	3/4"
GGW#44-12	11/16"	1-3/8"	3/8"
GGW#45-12	3/4"	1-15/16"	3/8"
GGW#46-12	3/4"	1-5/8"	1/2"
GGW#47-12	3/4"	1-1/16"	3/4"
GGW#48-12	31/32"	1-3/4"	7/16"
GGW#49-12	1-7/8"	2-1/4"	3/4"
GGW#50-12	21/32"	1-1/4"	1/4"
GGW#51-12	11/16"	1-1/8"	3/8"
GGW#52-12	5/8"	7/8"	3/8"
GGW#53-12	3/4"	1-1/4"	1/2"
GGW#54-12	3/4"	1-1/8"	7/8"
GGW#55-12	7/8"	1-31/64"	7/8"
GGW#56-12	11/16"	1-7/16"	13/32"
GGW#57-12	3/4"	15/16"	3/8"



Standard Gauge Glass Washers

GLASS DIAMETER	PART NUMBER	WASHER SPECIFICATIONS		WALL
		I.D.	O.D.	
5/8"	GGW58	9/16"	11/16"	1/4"
3/4"	GGW34	3/4"	15/16"	1/4"

****PLEASE SPECIFY -12 OR -100 AT END OF PART NUMBER FOR 12 PER PACKAGE OR 100 PER PACKAGE. FOR 1/2" & 3/4" GAUGE GLASS WASHER.**

NOTE: GGW58 HAS A TEMPERATURE RATING OF 250° F.



Brass Friction Rings

RING DIAMETER	PART NUMBER	WASHER SPECIFICATIONS		
		I.D.	O.D.	THICK
5/8"	58BW-12	5/8"	27/32"	1/32"
3/4"	34BW-12	3/4"	15/16"	1/32"

****58BW-12 IS USED WITH GGW58 GAUGE GLASS WASHERS**

****34BW-12 IS USED WITH GGW34 GAUGE GLASS WASHERS**



Part Number: 70320

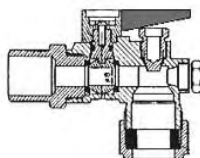
Description: 5/8" Gauge Glass Valve

Packaging: Boxed

Includes:

2 - 5/8" ID gauge glass valves

2 - Protection rods



A superior design in that they feature a 90 degree quick open close valve. Both valves are identical taking the guess work out of which one goes on the top or bottom. Easy access "clean out" plugs make maintenance a breeze. They also feature teflon seals and a brass body ball valve.

Part Number: 70322

Description: Packing nut kit

Packaging: Boxed

Includes:

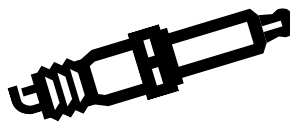
2 - 5/8" ID gauge glass packing nuts (58PN)

2 - 5/8" ID gauge glass washers (GGW58-12 or GGW58-100)

2 - 5/8" ID gauge glass friction rings (58BW-12)

This kit includes everything you need to repair leaking valves in the field. If you only need an individual item in bulk specify the part numbers in parenthesis.





Standard Gauge Glass			MAXIMUM RECOMMENDED WORKING PRESSURE, psi	
OUTER DIAMETER	PART NUMBER	OVER-ALL LENGTH	TEMP UP TO 150° F	STEAM BOILER UP TO 425° F
5/8"	58GG08	8"	205	100 psi
5/8"	58GG10	10"	205	100 psi
5/8"	58GG12	12"	205	100 psi
5/8"	58GG14	14"	190	100 psi
5/8"	58GG16	16"	190	100 psi
5/8"	58GG18	18"	190	100 psi
5/8"	58GG20	20"	185	100 psi
5/8"	58GG24	24"	180	100 psi
5/8"	58GG30	30"	175	**
5/8"	58GG36	36"	165	**
5/8"	58GG48	48"	140	**
5/8"	58GG60	60"	120	**
3/4"	34GG08	08"	205	100 psi
3/4"	34GG10	10"	205	100 psi
3/4"	34GG12	12"	205	100 psi
3/4"	34GG14	14"	200	100 psi
3/4"	34GG16	16"	195	100 psi
3/4"	34GG18	18"	190	100 psi
3/4"	34GG24	24"	180	**
3/4"	34GG36	36"	165	**
3/4"	34GG48	48"	140	**

** MAXIMUM RECOMMENDED LENGTH IN THIS SERVICE IS 24"



**5/8" DIA. STANDARD SODA
LIME GAUGE GLASS**

8" to 12" sold in 12 packs.
 14" to 36" sold in 6 packs.
 48" & 60" sold individually.

This glass is widely used in low pressure steam boiler applications. Easily cut to size. Use Crown's Squeeze & Pop cutter #40420. Sizes are standard.

**3/4" DIA. STANDARD
GAUGE GLASS**

Sold individually.

High Pressure Gauge			MAXIMUM RECOMMENDED WORKING PRESSURE, psi	
OUTER DIAMETER	PART NUMBER	OVER-ALL LENGTH	TEMP UP TO 150° F	STEAM BOILER UP TO 425° F
5/8"	58HP08	8"	435	320 psi
5/8"	58HP10	10"	420	315 psi
5/8"	58HP12	12"	410	305 psi
5/8"	58HP14	14"	390	295 psi
5/8"	58HP16	16"	375	285 psi
5/8"	58HP18	18"	360	280 psi
5/8"	58HP24	24"	320	255 psi
5/8"	58HP36	36"	245	**
5/8"	58HP48	48"	165	**
5/8"	58HP60	60"	150	**

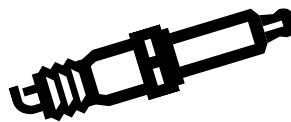
** MAXIMUM RECOMMENDED LENGTH IN THIS SERVICE IS 24"



**5/8" DIA. HIGH PRESSURE
BOROSILICATE® GLASS 3.3**

Sold per each.

These are made from Schott's heat resistant Borosilicate® brand tubing. They are the most versatile and popular type used in our industry.



Red Line Gauge Glass			MAXIMUM RECOMMENDED WORKING PRESSURE, psi	
OUTER DIAMETER	PART NUMBER	OVER-ALL LENGTH	TEMP UP TO 150° F	STEAM BOILER UP TO 425° F
1/2"	12RL10	10"	370	295 psi
1/2"	12RL12	12"	360	295 psi
1/2"	12RL14	14"	345	290 psi
1/2"	12RL16	16"	335	285 psi
1/2"	12RL24	24"	280	270 psi
1/2"	12RL36	36"	215	**
1/2"	12RL48	48"	175	**
5/8"	58RL08	8"	370	285 psi
5/8"	58RL10	10"	345	280 psi
5/8"	58RL12	12"	335	280 psi
5/8"	58RL14	14"	325	275 psi
5/8"	58RL16	16"	315	270 psi
5/8"	58RL18	18"	305	265 psi
5/8"	58RL24	24"	265	255 psi
5/8"	58RL28	28"	235	**
5/8"	58RL36	36"	205	**
5/8"	58RL48	48"	165	**
5/8"	58RL60	60"	**	**
5/8"	58RL72	72"	**	**
3/4"	34RL12	12"	330	275 psi
3/4"	34RL14	14"	320	270 psi
3/4"	34RL16	16"	310	265 psi
3/4"	34RL18	18"	300	260 psi
3/4"	34RL20	20"	285	260 psi
3/4"	34RL24	24"	260	250 psi
3/4"	34RL36	36"	200	**
3/4"	34RL48	48"	160	**

** MAXIMUM RECOMMENDED LENGTH IN THIS SERVICE IS 24"

DURAN® BRAND REDLINE GAUGE GLASS

It's very easy to spot liquid levels from a distance when you use our DURAN® brand redline tubular gauge glass. The red stripe on a white background gives a special optical effect which makes the liquid level stand out clearly. This feature allows for easy viewing of liquid levels from across the room.

1/2" Diameter

Sold individually.

5/8" Diameter

Sold per dozen (12 per case)

48" to 72" sold individually.

We also stock the following 5/8 Dia.

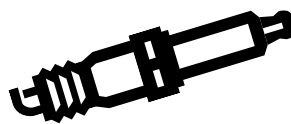
lengths: 9 1/4", 9 1/2, 10 1/4", &

20". Other lengths are available.

Minimum quantities required on all special orders.

3/4" Diameter

Sold individually.



**Don't gamble on another brand...
We have the winning hand!**



DUNLOP
INDUSTRIAL V-BELTS

Our Industrial V-Belts are designed for a wide variety of applications including heating and AC. All of our belts meet or exceed RMA standards and under-go ISO-9001 test standards. Our belts are constructed from tough, long-lasting synthetic rubber, reinforced with low elongation polyester cords. Specially designed synthetic rubber compounds give heat and oil resistance, which ensures that the belt will perform day after day in a wide range of ambient temperatures.

We typically stock a wide range of 4L series belts. All other series are considered non-stock and usually ship between 7 - 10 working days upon receipt of order.

Our Replacement Warranty

Our belts are warranted to be free from defects in materials and workmanship. This warranty is limited to replacing any belt, which is proven to be defective within 180 days from date of purchase under the following provisions:

- The belt was used in its designed application.
- The product is delivered to Crown with transportation charges prepaid (Call for RGA #)
- Analysis verifies that the product was properly handled, mounted, lubricated & not subject to abuse.

How To Order

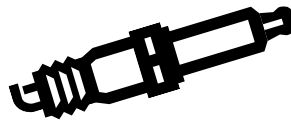
- 1) Select desired belt: Fractional or Hi-Power.
- 2) Select top width and thickness desired.
Note: All of these belts are pitched at a 40 degree angle.
- 3) Select desired INSIDE length for A & B series
or if ordering 3L, 4L or 5L, then select desired OUTSIDE length.
- 4) To order an A or B series belt that has an INSIDE length of 35", the part number would be A35 or B35.
- 5) To order a 3L, 4L, or 5L belt that has an OUTSIDE length of 35", the part number would be 3L350, 4L350 or 5L350.

Fractional Horsepower V-Belt Dimensions



Classical V-Belt Dimensions





























Wayne's line of high performance stainless steel and cast iron air cones makes for higher efficiency, lower emissions, lower nozzle temperatures and improved flame control to prevent smoke and soot build-up, which is an important feature, since soot can block efficient heat transfer and reduce efficiency.

Air Cones for Wayne Burners

Part Number	Burner Model Number	Firing Rate G.P.H.	Material Type
12329	M & E	2.25 - 3.00	Cast Iron
12442	OE & M	.75 - 1.50	Cast Iron
12988	MH & EH Flamelock	.50 - 6.00	Stainless Steel & Brass
12989	EH & MH	1.75 - 2.00	Cast Iron
12990	MH & EH	4.00 - 4.50	Cast Iron
13002	MH & EHA	1.00 - 1.50	Cast Iron
13003	MH, EH, & EHA	5.00 - 6.00	Cast Iron
13127	FH & FHA	7.00 - 11.00	Cast Iron
13128	FH	11.00 - 13.00	Cast Iron
13470	MOC80 & MOC100	.60 - .75	Cast Iron
13702	EH & EHA	3.00 - 5.00	Cast Iron
14157	#1ASR for MSR & EHASR	.75 - 1.00	Stainless Steel
14158	#2ASR for MSR & EHASR	1.00 - 1.50	Stainless Steel
14159	#3ASR for MSR & EHASR	1.60 - 2.00	Stainless Steel
14160	#4ASR for MSR & EHASR	2.00 - 2.25	Stainless Steel
14203	FH & FHA	4.00 - 7.00	Cast Iron
14302	#5ASR for MSR	.50 - 1.25	Stainless Steel
14365	#6ASR for MSR & EHASR	.75 - 2.00	Stainless Steel
14396	#8ASR for MSR & EHASR	1.75 - 3.00	Stainless Steel
100060	#SC for MSHR & MSR	.50 - .75	Stainless Steel
100328	#SD for HSRH-1	.75	Stainless Steel
100333	#SE for HSRH-1	.60	Stainless Steel
100389	HS	1.00 - 2.25	Cast Iron
100420	HS	.50 - 2.50	Cast Iron
100333-002	#SE2 for EG1 & MEG1	.60	Stainless Steel
100393-SER	HS for Flamelock 10 vane	3.00	Stainless Steel
100485-001	HS for Flamelock	.50 - .85	Stainless Steel
100531-001	HS	2.50 - 3.00	Cast Iron
14157-001	#1SR for HSR & EG1	.75 - 1.00	Stainless Steel
14160-004	#4SR for HSR & EG1	2.50 - 3.00	Stainless Steel
62393-001	HSG200	60-200 MBTU	Cast Iron

SEE PHOTOS ON NEXT PAGE












 P/N: 12329	 P/N: 12442	 P/N: 12988	 P/N: 12989	 P/N: 12990	 P/N: 13002
 P/N: 13003	 P/N: 13127	 P/N: 13128	 P/N: 13470	 P/N: 13702	 P/N: 14157
 P/N: 14158	<p>NO PHOTO</p> P/N: 14159	 P/N: 14160	 P/N: 14203	<p>NO PHOTO</p> P/N: 14302	 P/N: 14365
 P/N: 14396	<p>NO PHOTO</p> P/N: 100060	 P/N: 100328	 P/N: 100333	 P/N: 100389	 P/N: 100420
 P/N: 100333-002	<p>NO PHOTO</p> P/N: 100393-SER	<p>NO PHOTO</p> P/N: 100485-SER	 P/N: 100531-001	 P/N: 14157-001	<p>NO PHOTO</p> P/N: 14160-004
<p>NO PHOTO</p> P/N: 62393-001					



Air Cones for Beckett Burners

Part Number	Burner Model Number	Firing Rate G.P.H.	Material Type
F0	AF & SR	.40 - .75	Stainless Steel
F0H	AF & SR with Heat Shield	.40 - .75	Stainless Steel
F12	AF, SR, & SF	1.10 - 2.25	Stainless Steel
F16	Special Application	Various	Stainless Steel
F22	AF, SR, & SF	1.25 - 3.25	Stainless Steel
F220	SF	1.75 - 3.25	Stainless Steel
F3	AF & SR	.75 - 1.25	Stainless Steel
F31	AF	2.50 - 3.00	Stainless Steel
F310	SF	2.50 - 5.50	Stainless Steel
F310	SF	2.50 - 5.50	Stainless Steel
F3H	AF & SR with Heat Shield	.75 - 1.25	Stainless Steel
F4	AF & AFG	1.75 - 1.35	Stainless Steel
F6	AF & SR	.85 - 1.65	Stainless Steel
FB0	AF II 85 & 150	.40 - 1.00	Stainless Steel
FB3	AF II 85 & 150	.55 - 1.20	Stainless Steel
FB4	AF II 150	1.10 - 1.25	Stainless Steel
FB5	AF II 150	1.15 - 1.35	Stainless Steel

 F0 0.40-0.75 gph P/N: F0		 F12 1.10-2.00 gph P/N: F12		 F22 1.65-2.50 gph P/N: F22	
	P/N: F0H		P/N: F16	P/N: F220	
 F3 0.75-1.25 gph P/N: F3	 F31 2.50-3.00 gph P/N: F31	NO PHOTO P/N: F310	P/N: F3H	P/N: F4	P/N: F6
 P/N: FB0	 P/N: FB3	 P/N: FB4	 P/N: FB5		

Part Number: 45610

Description: C-10 Flame detector

Packaging: Carded - 5 per card

Includes:

Our flame detectors are hand crafted and tested twice, once before assembly, and after. A direct replacement in the Honeywell C554A, Honeywell replacement cell part numbers 130367, 120320 and 124607.



-Specifications-

Maximum Voltage: 30 VAC

Max. cell surface temp.: 180° F

Method of sensing: Cadmium Sulfide **Max. resistance:** Min. 300 OHMS
durning firing: Max. 1,600 OHMS

Part Number: 13666



UL file: MP268
 UL style: C554A

Description: Wayne Flame detector

Packaging: Boxed

Includes:

1 - flame detector with 30" lead, bracket, and instructions.
 Used in Wayne burner models EH(12"+tubes), HS(12"+ tubes), and FH.



Part Number: 14289



UL file: MP268
 UL style: C554A

Description: Wayne Flame detector

Packaging: Boxed

Includes:

1 - flame detector with 15" lead, bracket, and instructions.
 Used in Wayne burner models MEG1, EHS, EG1(3", 6", & 9" tubes), MSR, EH(6" & 9" tubes), EH (Weil-McLain specs), HS, HS(6" & 9" tubes), HS(Weil McLain specs). Also used in Bock water heater specs for MSR, EH, & HS.



Part Number: 14290



UL file: MP268
 UL style: C554A

Description: Wayne Flame detector

Packaging: Boxed

Includes:

1 - flame detector with 42" lead, bracket, and instructions.
 Used in Wayne burner models ER, EH, HSR and EG1.



Part Number: 956-1



UL file: MP268
 UL style: C554A

Description: White Rodgers Flame detector

Packaging: Boxed

Includes:

1 - flame detector with 48" lead, bracket, and instructions.
 Used in White Rodgers equipment. Replaces Honeywell #C554A-1794. UL recognized and C.S.A. certified.



Part Number: TMK60

Description: Honeywell Cad Cell Kit

Packaging: Boxed

Includes:

1 - flame detector with 60" lead, 6 brackets, & instructions.
 A true universal kit that meets the needs of many burner model applications. Replaces Honeywell #C554A-1463.



Part Number:

41900 - 1/2 Minute smoke candle - 12/pk. - 4,000 cu. ft.

41900-06 - 1/2 Minute smoke candle - 6/pk. - 4,000 cu. ft.

41901 - 1 Minute smoke candle - 12/pk. - 8,000 cu. ft.

41901-06 - 1 Minute smoke candle - 6/pk. - 8,000 cu. ft.

41902 - 3 Minute smoke candle - 12/pk. - 40,000 cu. ft.

41902-01 - 3 Minute smoke candle - Per Each - 40,000 cu. ft.

Description: Smoke Candles

Packaging: Poly-bag

Includes:

1 - 12/pk., 6/pk., or each from above list.

Our Superior smoke detectors generate smoke by chemical reaction to pinpoint leaks in heating and air conditioning duct work. Smoke varies in color from white to gray depending upon density and lighting.
 Now featuring new quantity packaging! Now available in packages of 6 for the 1/2 minute and 1 minute sizes and per each in the 3 minute size.



Part Number(s):

S102 - 45 Second smoke emitter 10/pk. - 150 cu. ft.

S103 - 90 Second smoke emitter 10/pk. - 600 cu. ft.

S104 - 150 Second smoke emitter 5/pk. - 1100 cu. ft.

S105 - 240 Second smoke emitter 5/pk. - 2500 cu. ft.

Description: Smoke Emitters

Packaging: Various

Includes:

1 - Pkg. from the above list

Our smoke emitters generate smoke by chemical reaction. Reveals leaks and other faults in heating and air conditioning duct work. Unique plastic cartridge makes for easy handling and disposal.





Our line of HAGO® precision oil burner nozzles is resistant to corrosion and wear. This is attributed to Hago's commitment to use high quality stainless steel. Each nozzle is oil tested for uniform capacity, angle, balance, and spray patterns before they can bear the HAGO® name. In production since 1937, Hago® nozzles are of high quality, precision craftsmanship, and reliability you can trust. They guarantee it! We guarantee it!

Basics: There are essentially three types of nozzle patterns, they are: Hollow, Solid, & Semi-Solid. The next two parameters go hand in hand with nozzle ordering and are pretty much standardized by all of the nozzle manufacturing groups, they are: GPH Specification and Angle Pattern in Degrees.

Ordering: With the above basics laid out we are now ready to take an order. The customer calls and says, "I need 24 PCs. of a point 75 GPH by 80 degree solid nozzle. Using Crown's simplified part number ordering system the order would be processed in the following format:

GPH Specification X Angle Pattern in Degrees X Spray Pattern

The above formula is how every service person in the industry will write their order. Hence, the Crown part number is: **7580 S**

Cross it over is easy as reading: To follow is a complete cross-reference chart. Remember the only thing you are crossing over is the SPRAY PATTERN of the nozzle the customer is ordering. Also to follow is a list of standard GPH rates and a list of standard ANGLES in degrees.

List of Standard GPH Capacity

.30	1.50	5.00	14.00
.40	1.65	5.50	15.00
.50	1.75	6.00	16.00
.55	2.00	6.50	17.00
.60	2.25	7.00	18.00
.65	2.50	7.50	19.00
.70	2.75	8.00	20.00
.75	3.00	8.50	22.00
.85	3.25	9.00	24.00
1.00	3.50	9.50	25.00
1.10	3.75	10.00	30.00
1.20	4.00	11.00	35.00
1.25	4.25	12.00	
1.35	4.50	13.00	

List of Standard Spray Angles

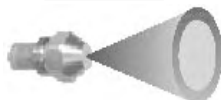
30°	45°	60°	70°	80°	90°
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Spray Pattern Cross Reference Chart

Spray Pattern	Hollow	Solid	Semi-Solid
Common color codes	Red	Green or Black	Blue
Crown	H	S	SS
Danfoss	H	S	NONE
Delavan	A	B	W
Hago	H	ES, P, & B	SS
Monarch	NS & PL	R & AR	PLP
Steinen	H	S	Q & SS

HOLLOW



SOLID



SEMI-SOLID





Part Number: 37021

Description: Plastic nozzle rack

Packaging: Corrugated carton box

Includes:

1 - Nozzle rack.

Made of plastic, this nozzle rack offers a nozzle capacity of 648 nozzles on 36 vertical shelves for quick access. It measures a spacious 32" x 14 1/2". Will accommodate other nozzle containers.

Part Number(s):

HAD14LONG - (1/4" NPT X 2" LONG)

HAD14SHORT - (1/4" NPT X 1" LONG)

HAD14STAND - (1/4" NPT X 1 3/8" LONG)

HAD18LONG - (1/8" NPT X 2" LONG)

HAD18SHORT - (1/8" NPT X 1" LONG)

HAD18STAND - (1/8" NPT X 1 3/8" LONG)

Description: Brass nozzle adapters

Packaging: Poly bagged & tagged

Includes:

1 - Adapter of choice from above list.

Made of standard brass and machined to spec these adapters are made to last.



LONG



STANDARD



SHORT

Part Number(s):

HBOXD - (10 7/8" X 7" X 3 1/4" - HOLDS 100 NOZZLES)

HBOXM - (10 1/4" X 7 1/4" X 1 5/8" - HOLDS 44 NOZZLES)

Description: Plastic nozzle boxes

Packaging: Various

Includes:

1 - Nozzle box of choice from above list.

Made of rugged, durable plastic. The boxes feature snap down plastic locking latches. They accommodate nozzles of all brands.



Part Number(s):

LC - (Opening at 95 psi - Closing at 55 psi)

MC - (Opening at 115 psi - Closing at 70 psi)

HC - (Opening at 136 psi - Closing at 80 psi)

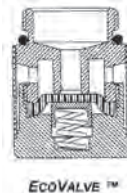
Description: EcoValve anti-drip valve

Packaging: Individual plastic containers

Includes:

1 - EcoValve of choice from above list.

EcoValve will eliminate the incomplete atomization that normally occurs during start-up and shut-down when the pump is not at full pressure. It will eliminate nozzle dribble and the drift back odor associated with this problem.





ENGINEERING CORPORATION

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