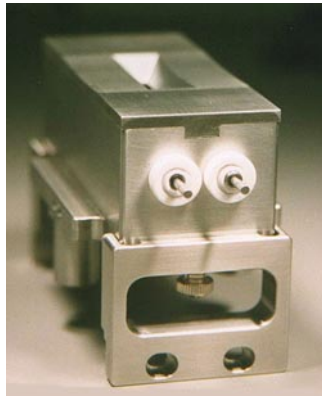




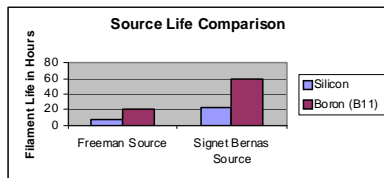
*Quality and Value
Through Engineering*

- ◆ Improved Beam Current
- ◆ Lower Magnetic Flux



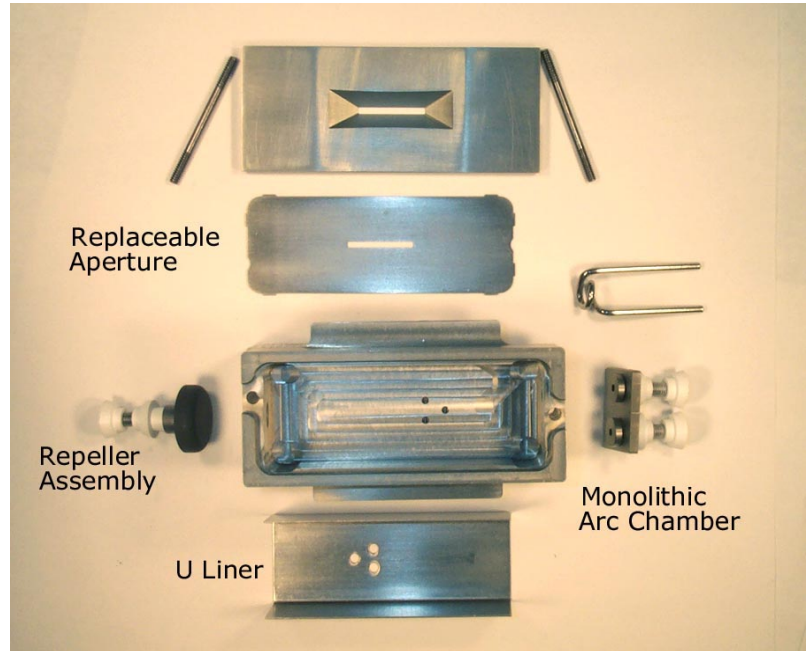
Assembled Bernas Arc Chamber

The table below summarizes one Signet customer's conversion from a Freeman source to a Signet Products Bernas source. Prior to this conversion their average filament life using Boron was only 20 hours. Their filament life with the Signet Products Bernas source is now 60 hours using Boron. The Signet Bernas source design allowed for a "Plug and Play" replacement of the Freeman source without modifying any of their recipes. They estimate saving over \$50,000 per year.



For more on the Repeller Assembly see our Data Sheet PDS1110.

VSEA – ION SOURCE Model E500 & E220 Signet 7000 Series Monolithic Source Conversion Kit



Conversion Kit Signet Part Number 1042-1

Signet P/N	OEM Part #	Description	Qty
03-6TN0	2835011 Ref.	Knurled Thumb Nut 6-32	2
30-36910-1	E17036910 Ref.	Silver Fil. Spring, Right	1
30-36911-1	E17036911 Ref.	Silver Fil. Spring, Left	1
30-6315	E170633140/50 Ref.	A/C Support, Fil. or Rep. Side	2
30-7005-2	N/A	Main Body, Dual Vap, Extended Liner	1
30-7009	N/A	Front Plate for Aperture	1
30-7010A	N/A	Aperture for a front plate	1
30-7011-1	N/A	Extended U Liner	1
31-14832	E17014832	Gas Feed Tube, Ta Dual Vap.	1
37-1200	101200001	Retaining Stud	2
40-0868	E17011320 or 1708680 Ref.	Repeller Insulator Spacer	1
40-2760	E17036980/1 or E1706630	Repeller Disc, Graphite	1
40-2765	N/A	Filament Shield	1
40-3430	E1712160 Ref.	Retainer, Alumina	2
40-8984	E17036980/1 or E1706630	Repeller Stud 10-32 x 1 3/32	1
40-8993	1200321 Ref.	Fil. Mounting Screw	2
40-9042-1	1790420 Ref.	Repeller Cup Shield, Moly	1
44-0868	1708680	Insulating Bushing, A/C	1
44-3410	E17011320 Ref.	Insulator Short	1
44-3420	E17168272 Ref.	Insulator Long	1
44-8985	1789850	Filament	1

Ref. = Design Alteration of OEM Part

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PDS1042 Revised 03/07/12

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