



◆ The Overachiever



For years block of Molybdenum have been discarded when the ion slot reaches end of life. This Signet design eliminates this costly waste because only the front plate need to be replaced.

Engineers will find the Series 5000 Arc Chamber easier to install because Signet's new one-piece support plate achieves one step alignment. It increases mechanical stability and electrical contact.

The interface between the front plate and main body has been designed to provide maximum thermal contact by using close tolerance and refractory studs. The main body will accept either a DF4 or 350D type ion slot/front plate which reduces inventory.

[See also our 30-5000 Sales Brochure.](#)

ION SOURCE for
VSEA – Varian/Extrion
A2F, CF/DF, DF/CF3000, 350D, DE, 300XP

Signet Arc Chamber with replaceable front plate



The main advantage of the Signet Series 5000 Arc Chamber is cost savings. Only the front plate needs to be replaced when the ion slot reaches end of life rather than the entire arc chamber. Savings begin with the first change of front plate. A replaceable aperture that fits between the front plate and the arc chamber is also available

The precision interface between the front plate and the main body of the arc chamber results in a long lasting ion slot and the ability to operate within machine specifications.

The Series 5000 design requires no arc chamber end cap which results in a better gas seal.

Conversion kit Signet part nbr 1050 includes the following:

Signet Part #	Qty	Description
30-5000	1	Main body with solid source inlet plugged
30-5001	1	Front Plate for 5392 type Arc Chamber
37-1200	2	Retaining stud
03-6TNO	2	Thumb nut
30-7140	1	Support plate, dual
37-3024	4	Shaft spacer, 1/4" I.D.
1506687	2	6-32x1/4" socket head cap screw

Ref. = Design Alteration of OEM Part

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