

Hexapole Collision Cell MS/MS Components

The Extrel CMS Hexapole Collision Cell was designed to couple a high pressure point source of ions, such as an Electrospray Spray Source, to a Mass Analyzer. It is conductance limited with a gas inlet port to introduce a buffer gas. The buffer gas can be used for either Collision Induced Dissociation or for Phase Space Compression to collisionally damp the ion beam into a smaller cross sectional area.

The Ions exiting the Extrel Collision Cell are well collimated which makes it ideally suited to be coupled to most mass analyzers. These include, Quadrupoles, RF and Magnetic Ion Traps and Time-of-Flight instruments

The Hexapole itself is made from 304 Stainless Steel rods with Alumina collars. The device includes stainless steel housing, conductance limited electrostatic entrance and exit focusing lenses, VCR gas connections and RF and DC connections.

The Hexapole rods are 2.4 mm in diameter and the Entrance and Exit lens apertures are 2.9 mm in diameter.

An RF Power Supply is required for the Hexapole and three DC Power Supplies for the entrance and exit lenses and for the Pole Bias (centerline potential) of the Hexapole.

Extrel manufactures an RF-only Power Supply and an Optional Lens Supply Upgrade with three DC Power Supplies.

The Hexapole Collision Cell and RF Power Supply are only two of a number of unique, high precision MS/MS components built by Extrel. Ask for Product Note RP_2601 for a complete list. If you would like a complete list of all our products, ask for the Extrel CMS Product Guide and Price List or contact your local Extrel Representative.

Device	Part Number
Hexapole Collision Cell	815409
RF Power Supply and QMS DC Supply	815416 and 813369
Optional Lens Supply Upgrade	610602
70 CF (2 ¾ inch) flange with 2 RF Feedthroughs and seals and strain relief	813478



Figure 1 Hexapole Collision Cell with Entrance Lens Removed
Shown with gas connections nearest the viewer

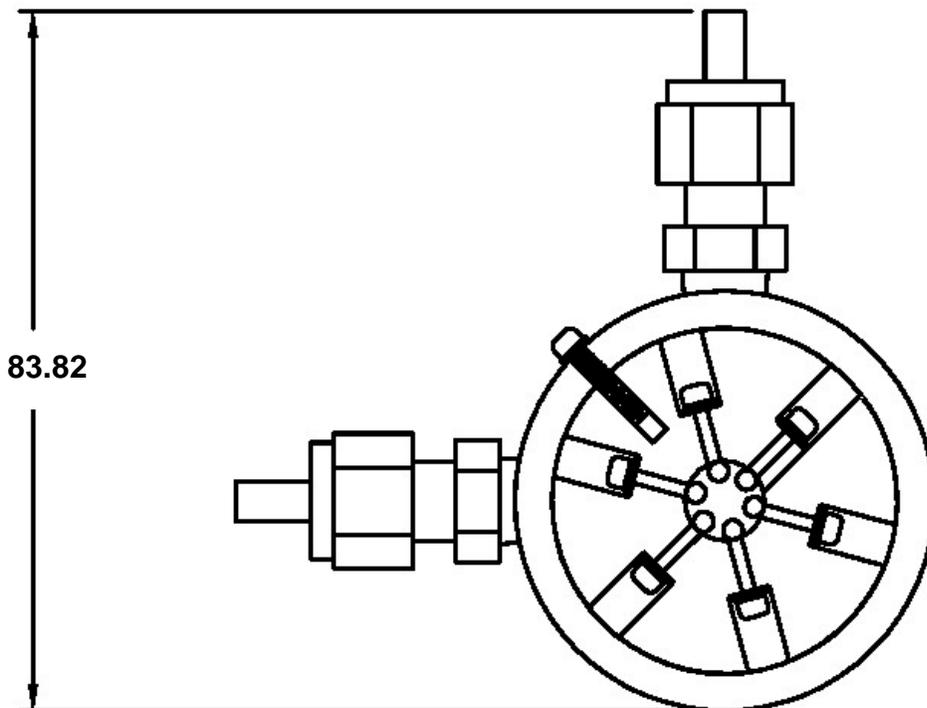
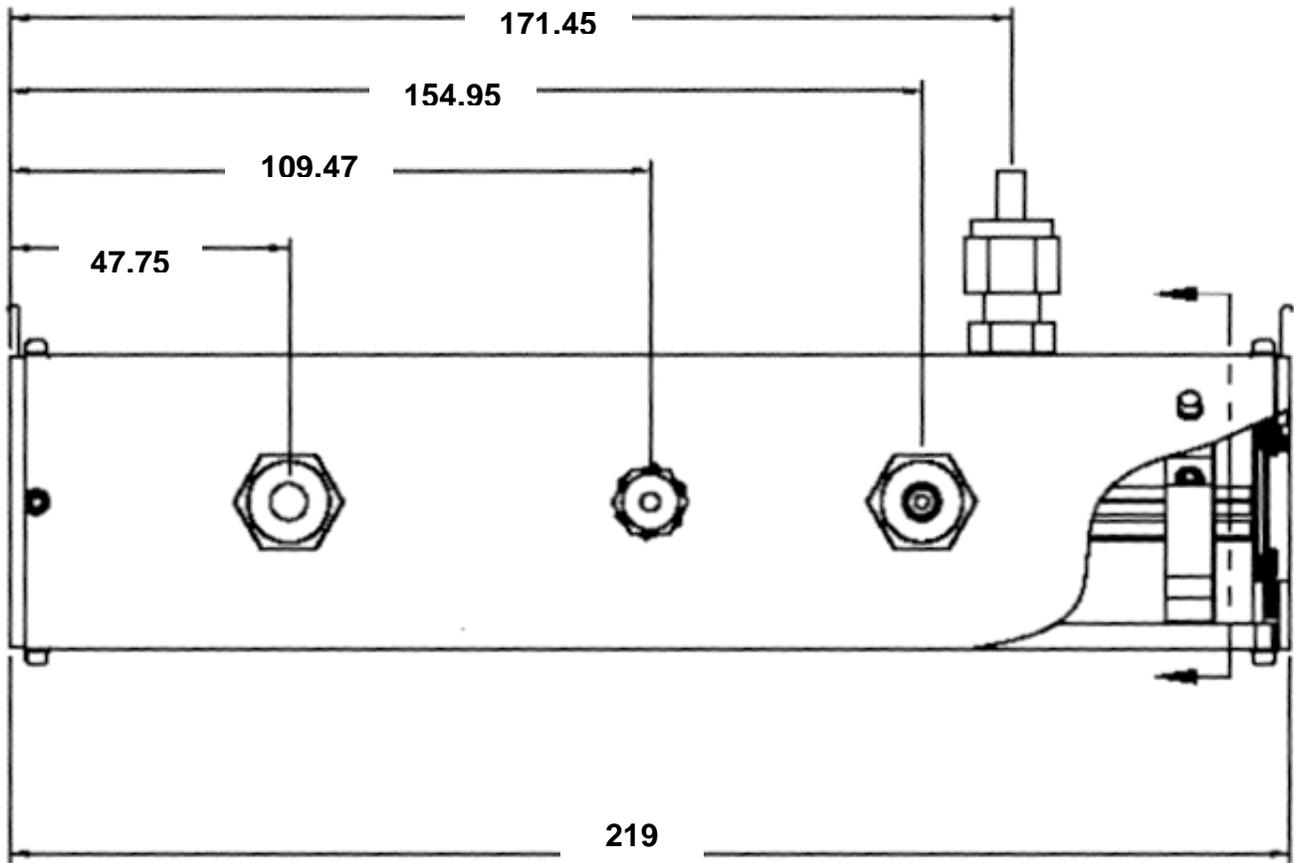


Figure 2: Hexapole Collision Cell with Entrance Lens
Shown with the RF Connections nearest the viewer

Extrel CMS

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All Dimensions are shown in mm

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