

VPPEM Aperture

The VPPEM aperture is a pure iron ring, 80mm OD, 38mm ID, and 12.5mm thick. It was found to very important to have the ring properly annealed. The ring was annealed to make it soft magnetically with a vacuum anneal at 850C for 4 hours, with slow cool 2-3C/min to 600C. The ring and its assembly consisting of a custom aluminum vacuum fitting and a mu-metal shield is shown in Figure .

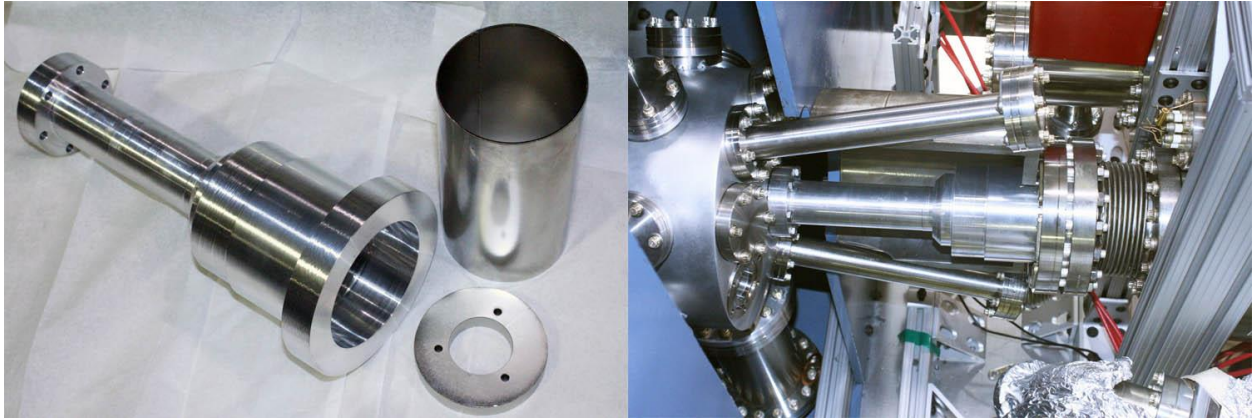


Figure 1 VPPEM aperture assembly and fitting