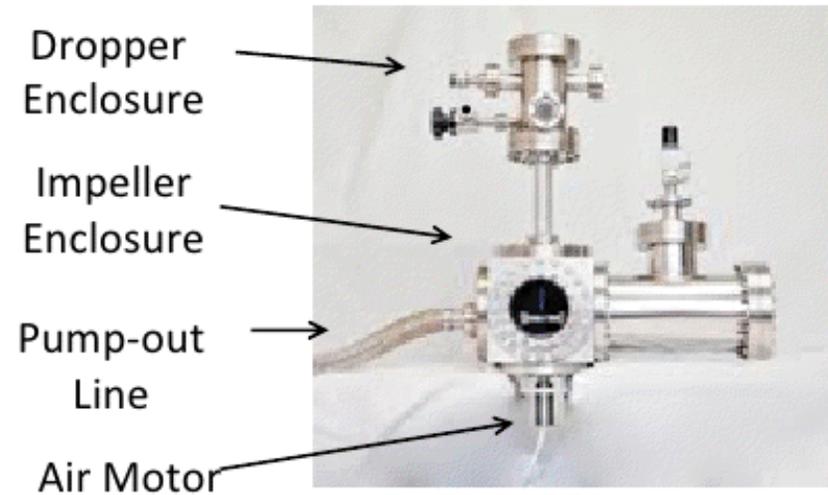


Real-time resupply of Li into NSTX

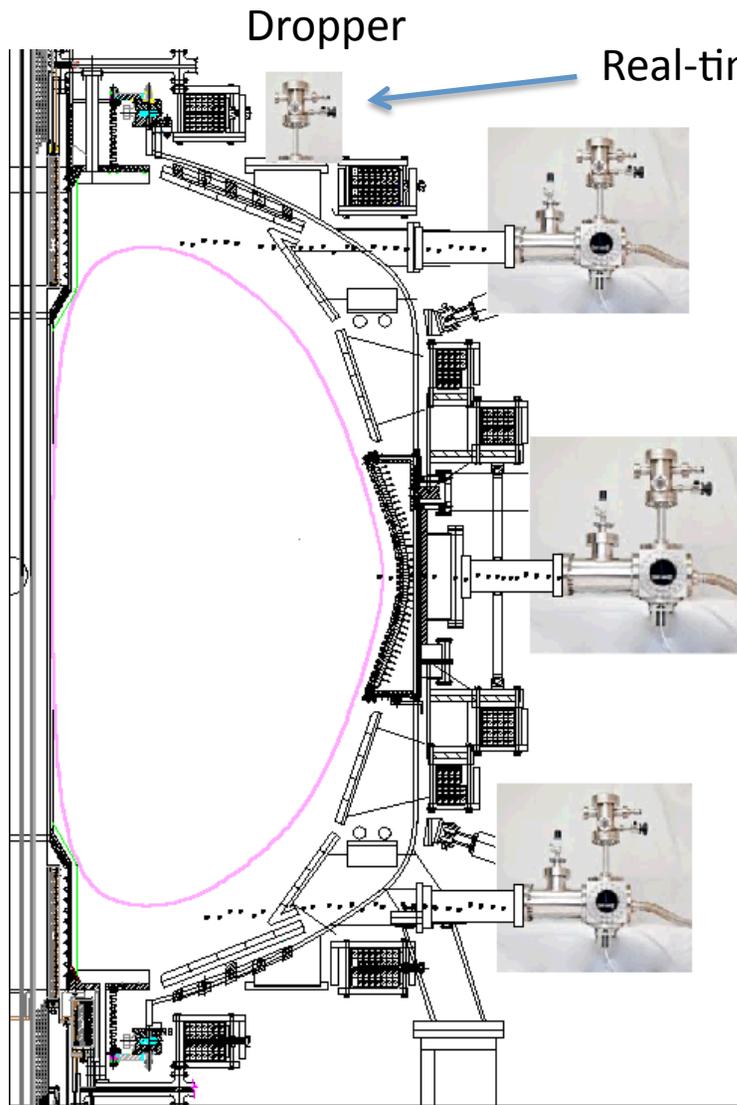
- Long-pulse discharges require method to resupply the Li during a discharge.
- The Li dropper has released up to 120 mg/sec of Li powder per injector into NSTX
- We have tested 0.6 mm diameter pellets using the new Li injector and have injected up to 100mg/sec in the lab.
- Pellet size (up to 1mm diameter) and velocity (up to 100 m/s) can be varied to optimize injection parameters.
- Injector may be capable of inducing ELMs, reducing the heat flux in the divertor, controlling MHD.
- All dropper control hardware/software exists. Minimum effort required to control air pressure to injector motor.



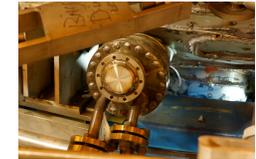
Injectors are presently being sent to RFX, EAST, DIII-D???

NSTX should have 1 or 2.

Li Injector locations on NSTX



Real-time resupply of Li
in the upper divertor



Induce ELMs/Resupply of Li



Real-time resupply of Li
In the lower divertor



Provide divertor
views at B/F top