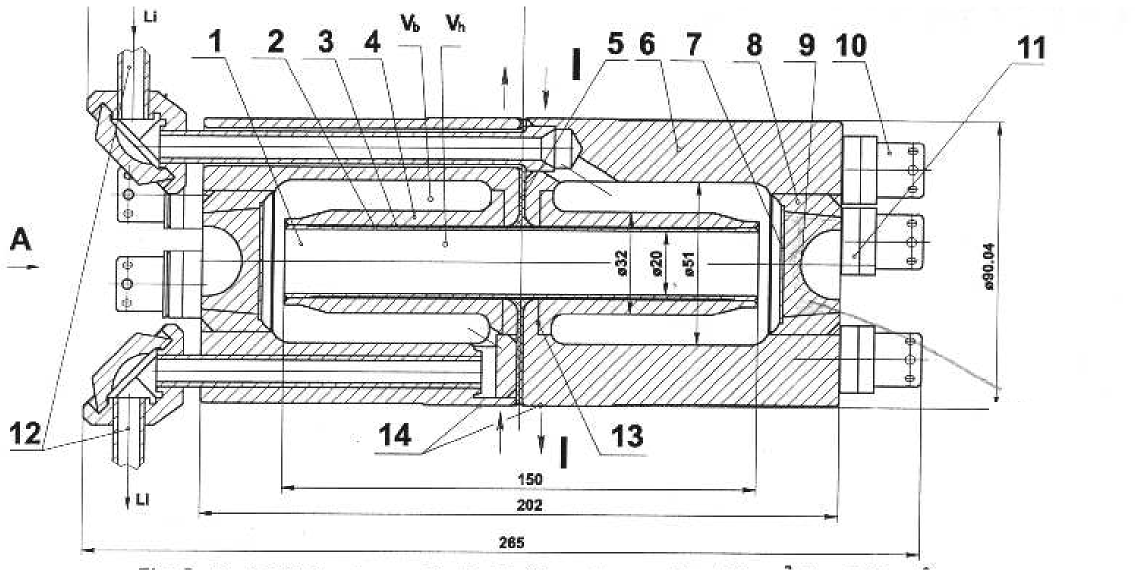
Ongoing Liquid Lithium Lens R&D

- A contract between Novosibirsk and FNAL exists to develop a 15 cm long liquid lithium lens for anti–proton collection (radius = 1 cm, surface field = 13 T, repetition rate = 0.5 Hz).
- Conceptual Layout Done:



  - Liquid lithium pumping system
  - Heating system with heat exchanger
  - Pressure control (300 atm) unit
  - Flow rate measurement
  - Liquid locking valves (isolate lens during pulses)
- PS –> 1 MA available & tested with load
- Schedule:
  - Status Review Feb. 14th, 1999
  - CY99: Build lens.
  - CY00: Test lens (10^6 pulses) & deliver to FNAL.