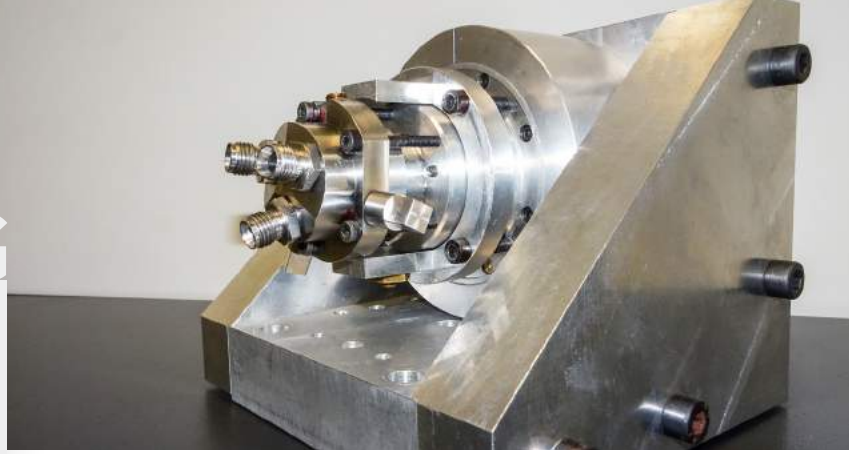




REFUELING

Refueling Pump



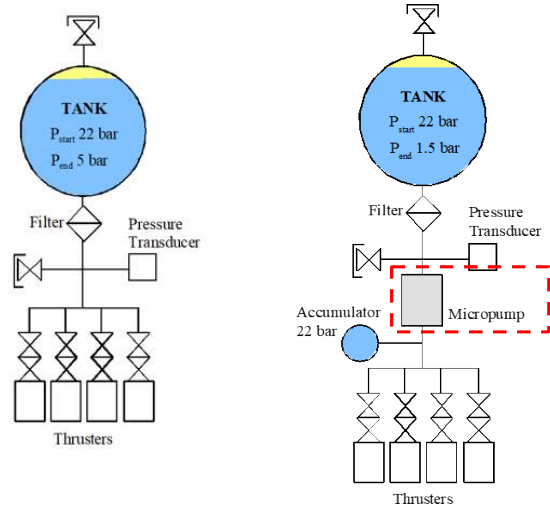
Pump concept developed by CNES and CSTM between 1997 and 2012

- › Manufacturing of several breadboards
- › Ground tests with water and hydrazine



Main benefits

Transfer hydrazine from tank to accumulator upstream to thrusters.



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Keys features

Lowest Inlet Pressure

1.5 bar (lowest pressure before cavitation)

Outlet Pressure

22 bar (40 bars maximum reached)

Flow Rate

0.18L/min

Temperature Working Fluid

[+20°C ; +60°C]

Working Fluid

Water, Hydrazin (tested at CNES Facility)

Mass

2 kg (Pump + actuator)

Electrical Power Consumption

22 W

Life time

Perform 24 h endurance test with reference tests (4 h) before and after the endurance test





REFUELING PUMP

Pump

