



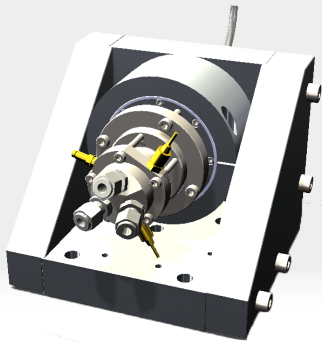
LIQUID

Liquid Pump



Pump concept developed by CNES and CSTM between 1997 and 2012

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

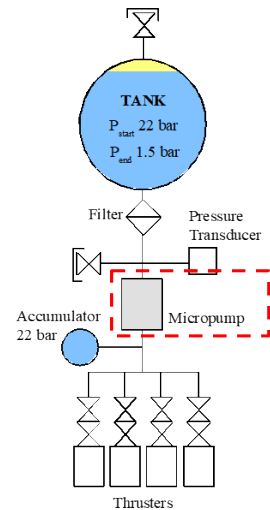
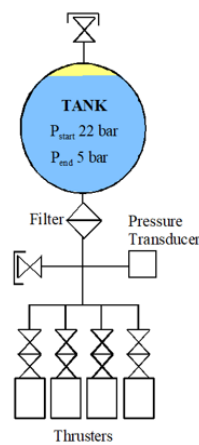


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Main benefits

Transfer hydrazine from tank to accumulator upstream to thrusters.



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, Hydrazine (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



LIQUID PUMP

Pumps

