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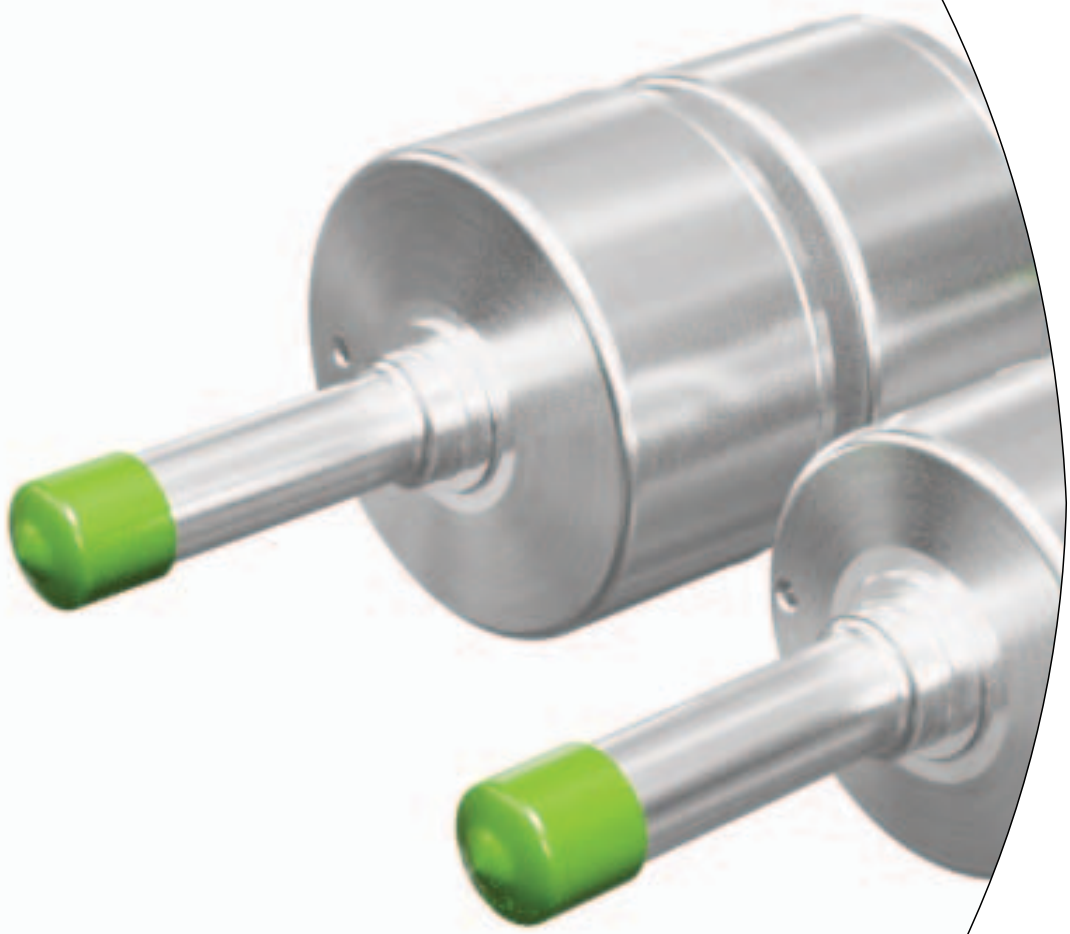
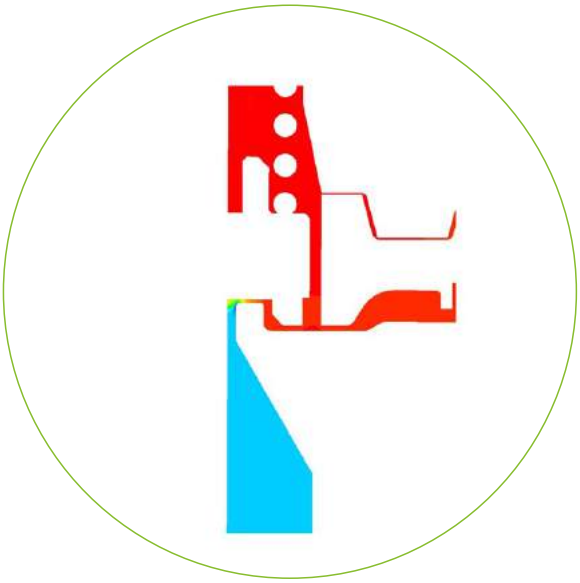


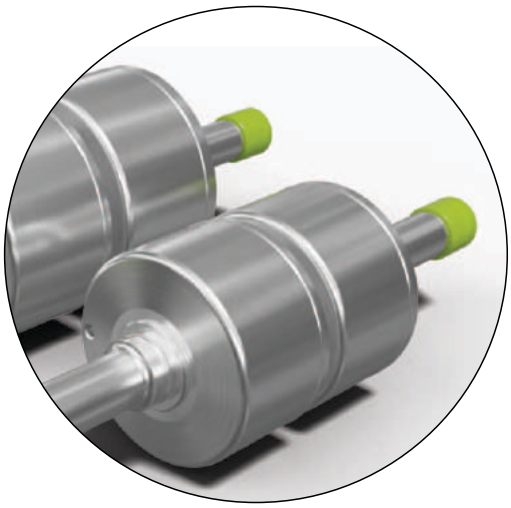
Electromagnetic
valve technology

PROPELLANT CONTROL VALVES FOR MONO AND BIPROPELLANT THRUSTERS

CHARACTERISTICS

Offered solenoid valves designed for 1N mono- and 10N bipropellant thrusters were developed in cooperation with Astronika and Airbus D&S under the ESA contract. Selected structural materials and seal made of virgin PTFE enable operations with standard and green propellants, including High Test Peroxide.



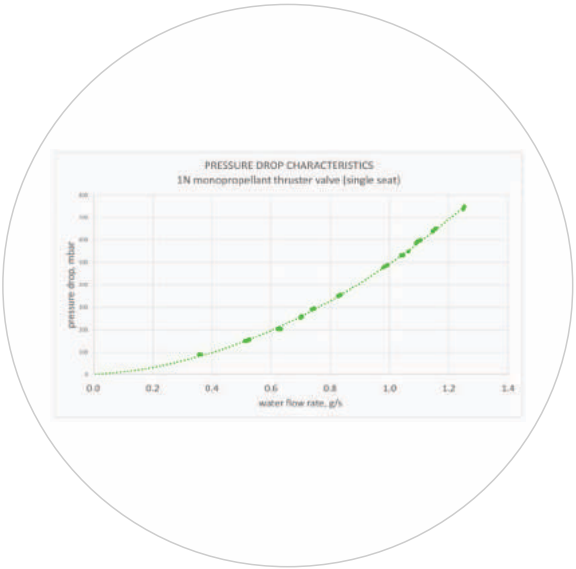


TECHNICAL INFORMATION

Parameter	Value	Value
Application	1 N monopropellant thrusters	10 N bipropellant thrusters
Operating pressure	24 Bar	24 Bar
Nominal massflow	0.8 g/s of HTP	1.9 g/s of MMH
Pressure drop	0,5 Bar	0,5 Bar
Internal leakage	<1E-5 scc/s gHe per seat	<1E-5 scc/s gHe per seat
Opening/closing time	<15 ms	<15 ms
Voltage	23-38 V; 28 V Nominal	23-38 V; 28 V Nominal
Power consumption	11 W	17 W

KEY FEATURES

- ITAR free
- Dual seat
- Coaxial flow
- Normally closed
- Solenoid
- Non sliding fit suspended armature
- All welded design
- Back relief function
- ¼" straight tube connection (other on request)
- Controlled fluids: Hydrazine, MMH, MON, H_2O_2, LMP-103S



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al. Krakowska 110/114, 02-256 Warsaw, Poland
e-mail: info@ilot.lukasiewicz.gov.pl / www.ilot.lukasiewicz.gov.pl