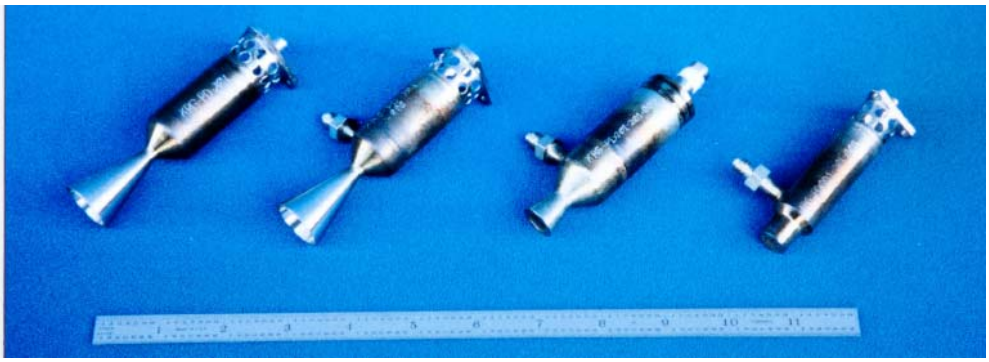
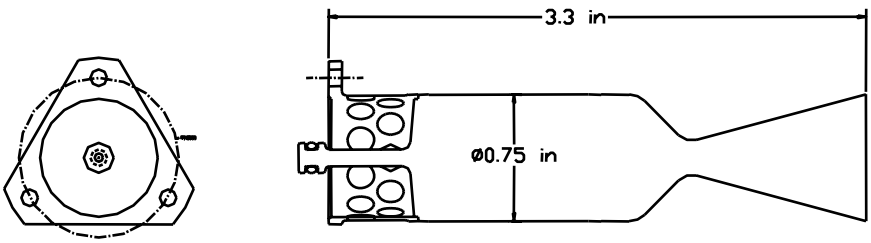
General Kinetics Inc.

3 lbf H2O2 Mono-Propellant Thruster

P/N: GK-PD015-201-001





Specifications

• Fluid	85% hydrogen peroxide
• Life	> 240 sec.
• Thrust	3 lbf, vac
• Specific Impulse	134 lbf-s/lbm, vac (with 85%)
• C-star Efficiency	> 95%
• Chamber Pressure	130 psia, nominal
• Feed Pressure	274 psia, nominal
• Flow rate	0.022 lbm/sec., nominal
• Catalyst	Silver screen
• Mass	~ 0.2 lbm
• Status	Completed Development

Description

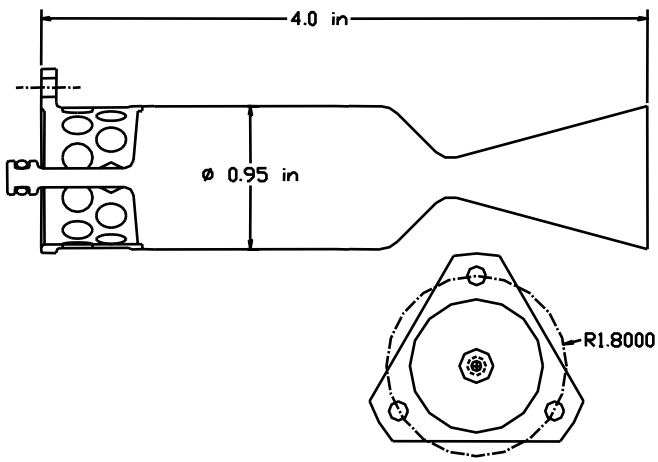
This rocket engine was designed and developed for use on small spacecraft. This engine was a precursor engine to a 6 lbf thruster. May be upgraded for use with 90-98% H2O2

General Kinetics Inc.
Ph: (949) 768-0166 / FAX (949) 581-7612
email: gkllc@gkllc.com
www.gkllc.com

General Kinetics Inc.

6 lbf H2O2 Mono-Propellant Thruster

P/N: GK-ED007-201-001



Specifications

- Fluid — 85% hydrogen peroxide
- Life — > 240 sec.
- Thrust — 6 lbf, vac
- Specific Impulse — 134 lbf-s/lbm, vac (with 85%)
- C-star Efficiency — > 95%
- Feed Pressure — 275 psia, nominal
- Chamber Pressure — 130 psia, nominal
- Flow rate — 0.045 lbm/sec., nominal
- Catalyst — Silver screen
- Mass — ~ 0.3 lbm

Description

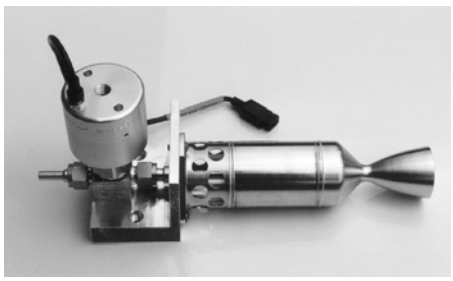
This rocket engine was designed and developed for use on small spacecraft. This engine is currently being used for system R&D testing. May be upgraded for use with 98% H2O2.

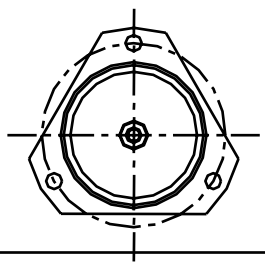
General Kinetics Inc.
Ph: (949) 768-0166 / FAX (949) 581-7612
email: gkllc@gkllc.com
www.gkllc.com

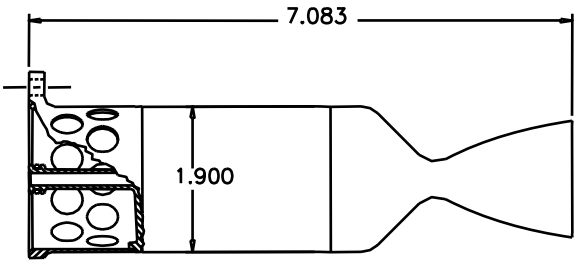
General Kinetics Inc.

25 lbf H2O2 Mono-Propellant Thruster

P/N: GK-PD006-201-001







Specifications

- Fluid — 85 to 92% hydrogen peroxide
- Life — > 500 sec.
- Specific Impulse — 143 lbf-s/lbm, vac (with 85%)
- C-start Efficiency — > 95%
- Thrust — 25 lbf, vac
- Chamber Pressure — 150 psig, nominal
- Flow rate — 0.17 lbm/sec., nominal
- Catalyst — Silver screen
- Mass — ~ 1.7 lbm, Without Valve
- Status — Completed Development

Description

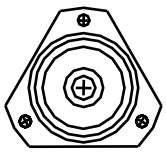
This rocket engine was designed and developed for attitude control applications for reusable spacecraft and upperstages. This rocket engine was used for research testing. May also be upgraded for use with 98% H2O2

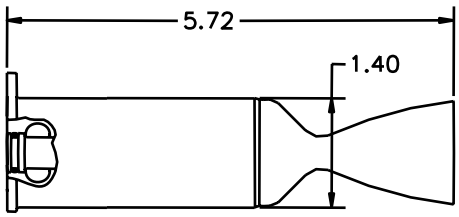
General Kinetics Inc.
Ph: (949) 768-0166 / FAX (949) 581-7612
email: gkllc@gkllc.com
www.gkllc.com

General Kinetics Inc.

40 lbf H2O2 Mono-Propellant Thruster

P/N: GK-PD023-201-002





Specifications

- Fluid — 90% hydrogen peroxide
- Life — 1000 sec. (estimated)
- Thrust — > 40 lbf
- C-Star Efficiency — > 95%
- Feed Pressure — 750 psia, nominal
- Catalyst — Silver
- Status — In development

Description

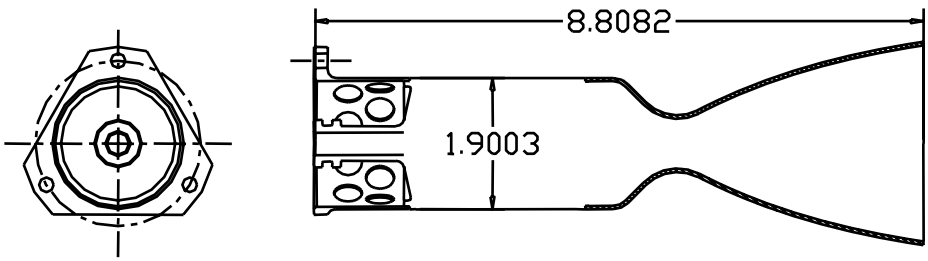
This is a research and development thruster for small spacecraft applications

General Kinetics Inc.
Ph: (949) 768-0166 / FAX (949) 581-7612
email: gkllc@gkllc.com
www.gkllc.com

General Kinetics Inc.

80 lbf H2O2 Mono-Propellant Thruster

P/N: GK-PD006-202-001



Specifications

•	Fluid	85 to 92% hydrogen peroxide
•	Life	> 500 sec.
•	C-Star Efficiency	> 95%
•	Thrust	80 lbf
•	Specific Impulse	143 lbf-s/lnm vac (with 85%)
•	Chamber Pressure	150 psia, nominal
•	Flow rate	0.5 lbm/sec.
•	Catalyst	Silver
•	Mass	2.0 lbm without valve
•	Status	Completed development

Description

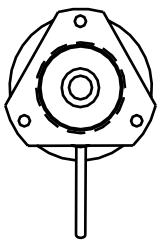
This rocket engine was designed and developed for attitude control applications for reusable spacecraft and upperstages. This rocket engine was used for research testing. May also be upgraded for use with 98% H2O2

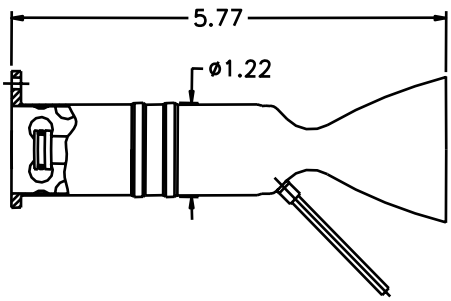
General Kinetics Inc.
Ph: (949) 768-0166 / FAX (949) 581-7612
email: gkllc@gkllc.com
www.gkllc.com

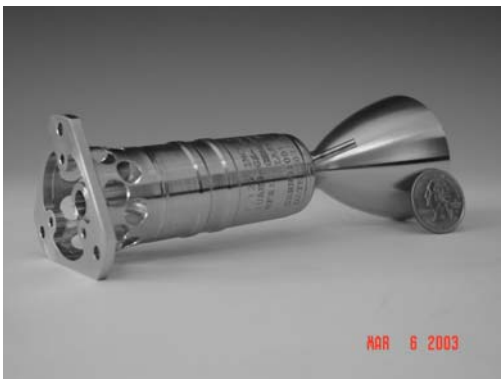
General Kinetics Inc.

150 lbf H2O2 Mono-Propellant Thruster

P/N: GK-PD033-201-001







Specifications

- Fluid — 90% hydrogen peroxide
- Life — 1000 sec. (estimated)
- Thrust — > 150 lbf (estimated)
- C-Star Efficiency — > 95%
- Feed Pressure — 750 psia, nominal
- Catalyst — Silver
- Status — In development

Description

This is a research and development thruster for small spacecraft applications

General Kinetics Inc.
Ph: (949) 768-0166 / FAX (949) 581-7612
email: gkllc@gkllc.com
www.gkllc.com