

SPACECRAFT SYSTEMS

Single-Set Element Gas/Liquid-Filling Valve

The Single-Set Element Gas/Liquid-Filling Valve is designed for propellant filling and venting in satellite propulsion systems. It features a metal-to-metal hard-sealing structure that ensures high sealing performance at a low cost. The valve is lightweight, compact, and leak-resistant, making it well-suited for commercial satellite propulsion applications.

TECHNICAL SPECIFICATIONS

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Dimensions (mm)	90 × 32 × 42 (C-GFDV-1/2) / 71 × 32 × 42 (C-GFDV-1A/2A)
Mounting Material	316L Stainless Steel
Operating Temperature (°C)	+5 to +60

Quick Overview

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Key Specifications

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Key Features

- High maturity and reliability.
- Stainless steel body construction.
- Lightweight and compact structure.
- Excellent adaptability to space environments.

Applications

- Used for **propellant and gas filling or venting** in monopropellant propulsion systems.

Documentation & Resources

- [Technical Specifications](#)
- [Applications](#)