

NEWSPACE MARKET · COMPANY PROFILE



# VACCO Industries

United States · founded 1954 · vacco.com

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as of 20 August 2026



# VACCO Industries

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VACCO Industries is a US manufacturer of precision fluid control components and integrated propulsion subsystems for spacecraft and defense applications. Founded in 1954 and headquartered in El Monte, California, VACCO has over 70 years of heritage manufacturing flight-quality propulsion hardware for NASA, DoD, and commercial satellite missions. VACCO's space products fall into two main areas: integrated micro-propulsion systems for small satellites (CubeSat and SmallSat), and precision fluid control components including latch valves, check valves, relief valves, and pressure regulators for larger spacecraft. Their Micro Propulsion Systems (MiPS) product line offers complete, integrated cold gas, warm gas, and green monopropellant thruster modules designed to fit within CubeSat form factors. Highlight missions include the ArgoMoon MiPS, which flew on NASA's Artemis I in 2022 as an ESA CubeSat secondary payload, the JPL MarCO MPS that flew on the first interplanetary CubeSats in 2018, and the NASA C-POD system demonstrating on-orbit propulsion for 3U CubeSats. VACCO's Standard MiPS has been selected for dozens of commercial LEO constellation satellites. VACCO Industries was acquired by RBC Bearings in 2021. The company operates under its established brand and continues to serve the space industry from its El Monte, California manufacturing facility. VACCO's propulsion components are designed and tested to MIL-SPEC and aerospace quality standards with full traceability.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

## SERVICES

### Services

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#### Custom Engineering Services

VACCO provides engineering expertise as part of its offerings, contributing to innovative engineered solutions for critical missions.

# Product catalogue



VACCO INDUSTRIES

**12" Cryogenic Prevalve**

A 12-inch cryogenic pre valve developed by VACCO for the SLS Core Stage, controlling propellant flow and supporting chill down and safing of the Main Propulsion System.

|                  |                                                                            |
|------------------|----------------------------------------------------------------------------|
| Product types    | Cryogenic ball valves; cryogenic fill & drain valves; cryogenic pre valves |
| Featured product | 12 in. cryogenic pre valve, SLS Core Stage                                 |
| Functions        | Propellant chill-down, engine flow control, MPS safing                     |
| Flight heritage  | Apollo, Space Shuttle, Space Launch System (SLS)                           |

[price on request](#) [datasheet](#)



VACCO INDUSTRIES

**4500 Series Tee Type Filter Single Stage 3000 psi**

A series of single-stage tee type filters designed for 3000 psi operating pressure, with various connection types and sizes.

|                                     |                  |
|-------------------------------------|------------------|
| Operating Pressure                  | 3000 PSIG        |
| Max Element Pressure Drop           | 10 psi           |
| Operating Temperature (Buna-N)      | -65 °F to 225 °F |
| Operating Temperature (Propylene)   | -65 °F to 300 °F |
| Operating Temperature (Viton)       | -20 °F to 350 °F |
| Filtration (nominal microweave)     | 10µ              |
| Filtration (nominal sintered fiber) | 10µ              |

[price on request](#) [datasheet](#)



VACCO INDUSTRIES

**Check Valves and Relief Valves**

VACCO's flight-qualified check valves and relief valves provide fluid control and system protection for satellite and spacecraft propulsion and fluid systems, including bi-propella

|                   |                                                    |
|-------------------|----------------------------------------------------|
| Configurations    | Single, parallel, and series redundant             |
| Relief Valve Type | Single-seat, non-propulsive                        |
| Flight Heritage   | GPS-III, Cygnus, SLS, Boeing HS601/702, SD0, H-ITV |

[price on request](#) [datasheet](#)



VACCO INDUSTRIES

**Green mono-propellant Micro Propulsion System (MiPS)**

The VACCO Green MiPS is a self-contained 3U mono-propellant propulsion system for CubeSats, featuring four 100 mN thrusters and providing 3,320 N-sec of total impulse.

|                               |                  |
|-------------------------------|------------------|
| Performance density           | 969 N-sec/L      |
| Volume                        | approximately 3U |
| Number of thrusters           | four             |
| Thruster thrust               | 100 mN           |
| Total impulse                 | 3,320 N-sec      |
| Delta-V (for a 14 kg CubeSat) | 237 m/s          |
| Propellant capacity           | 2 kg             |

[price on request](#) [datasheet](#)



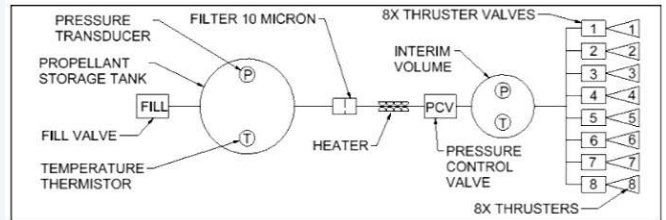
## VACCO INDUSTRIES

### Integrated Propulsion System (IPS)

VACCO's Integrated Propulsion System (IPS) is a complete, bolt-on propulsion module for SmallSats, providing attitude control and delta-V with a total impulse of 12,000 N-sec.

|                                           |                                            |
|-------------------------------------------|--------------------------------------------|
| Total Impulse                             | 12,000 N-sec                               |
| Thruster Type                             | 1N LMP-103S green monopropellant thrusters |
| Number of Thrusters                       | Four                                       |
| Net Axial Thrust                          | 3.97N                                      |
| Thruster Flight Heritage                  | 56 units successfully flown since 2010     |
| Communication and Health Monitoring Power | <1W                                        |
| Peak Power                                | 50W                                        |

[price on request](#) [datasheet](#)



## VACCO INDUSTRIES

### NASA C-POD Micro Propulsion System

The NASA C-POD Micro Propulsion System is a self-contained reaction control module designed for 3U CubeSats, providing precise attitude control and rendezvous/proximity operations

|                               |                |
|-------------------------------|----------------|
| Operating Temperature Range   | 0°C to 60°C    |
| Total Impulse                 | 186 N-sec      |
| Operating Voltage             | 9 to 12.6 vdc  |
| Nominal Continuous Thrust     | 10 mN +/- 2 mN |
| Max Standby Power Consumption | 0.25 watts     |
| Minimal Impulse Bit           | 0.50 mN-sec    |
| Max Steady-State Power        | 5 watts        |

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## VACCO INDUSTRIES

### Redundant SmallSat Propulsion Controller

A fully redundant, radiation-tolerant propulsion system controller module from VACCO optimized for SmallSats and CubeSats, providing independent primary and redundant control of the

|                        |                                                                   |
|------------------------|-------------------------------------------------------------------|
| Valve drivers          | 10 valve drivers with automatic stepdown voltage (per controller) |
| Heater drivers         | 10 Heater Drivers (per controller)                                |
| Temperature sensing    | 4 Thermistors & 10 Thermocouples (per controller)                 |
| Temperature control    | Closed loop temperature control                                   |
| Pressure sensor inputs | 3 pressure sensor inputs (per controller)                         |
| Analog inputs          | Auxiliary analog inputs                                           |
| Data interface         | RS-422, full duplex data interface                                |

[price on request](#) [datasheet](#)

| R236fa Cold Gas System Table |                    |                               |                                       |                       |                       |
|------------------------------|--------------------|-------------------------------|---------------------------------------|-----------------------|-----------------------|
| Part Number                  | System Height (mm) | R236fa Propellant Volume (cc) | R236fa Propellant Liquid Mass (grams) | MIPS Dry Mass (grams) | Total Impulse (N-Sec) |
| X19039000-01                 | 36                 | 170                           | 209                                   | 639                   | 82                    |
| X19039000-02                 | 70                 | 453                           | 557                                   | 799                   | 219                   |
| X19039000-03                 | 100                | 697                           | 857                                   | 956                   | 336                   |
| X19039000-04                 | 144                | 1,068                         | 1,314                                 | 1144                  | 515                   |

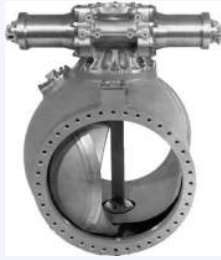
## VACCO INDUSTRIES

### Standard Micro Propulsion System (MiPS)

VACCO's Standard MiPS is a modular cold gas propulsion system providing attitude control and delta-V for CubeSats and SmallSats, flight-proven on the Mars Cube One (MarCO) mission.

|                          |                                                       |
|--------------------------|-------------------------------------------------------|
| Performance Density      | 228 to 358 N-sec/L                                    |
| Thruster Count           | Four 25mN cold gas thrusters                          |
| Total Impulse (scalable) | 82 to 515 N-sec                                       |
| Thrust Angle ("B")       | 0° to 30°                                             |
| Max Pressure             | <100 psia (Range Safety Friendly design)              |
| Pressure Boundary        | Leak before burst                                     |
| Digital Interface        | Integral Microcontroller with RS422 digital interface |

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## VACCO INDUSTRIES

### VACCO ΔTEL Differential Pressure Indicator

A differential pressure indicator that provides visual or remote warning when a filter element is nearing the end of its service life, designed for reliability and high G-load tran

|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| Material              | Aluminum (std), Corrosion Resistant Steel (optional)                                       |
| Seals (Electrometric) | Buna "N" (std), Viton (std), EPR (std), Others Upon Request                                |
| Operating Pressure    | 5,000 psig                                                                                 |
| Proof Pressure        | 7,000 psig                                                                                 |
| Burst Pressure        | 12,500 psig                                                                                |
| Surge Control         | Optional                                                                                   |
| Indicating Pressures  | 15 ± 2.5 psid, 25 ± 3.0 psid, 35 ± 5.0 psid, 50 ± 8.0 psid, 70 ± 10 psid, 100± 15 psid, 12 |

[price on request](#) [datasheet](#)



## VACCO INDUSTRIES

### VACCO ArgoMoon MiPS

The VACCO ArgoMoon MiPS is a hybrid micro propulsion system combining green mono-propellant and cold gas propulsion for CubeSats, offering attitude control and orbital maneuvering.

|                                                  |             |
|--------------------------------------------------|-------------|
| Performance density                              | 692 N-sec/L |
| Green thruster total impulse                     | 783 N-sec   |
| Green thruster delta-V (for 14 kg CubeSat)       | 56 m/s      |
| Cold gas thrusters total impulse                 | 72 N-sec    |
| Propellant mass                                  | 420 g       |
| Pressurant mass                                  | 215 g       |
| Power consumption (health and status monitoring) | < 1 Watt    |

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## VACCO INDUSTRIES

### VACCO Check and Relief Valves

Propulsion check valves and non-propulsive relief valves providing over 40 years of flight-proven overpressure and backflow protection.

|                 |                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------|
| Configurations  | Single, parallel, series-redundant check valves; single-seat non-propulsive relief valves  |
| Application     | Bi-propellant and dual-mode propulsion systems                                             |
| Flight heritage | Boeing HS601/HS702, Star-2, FS-1300, DS2000, GPS III, Cygnus, HTV, Solar Dynamics Observat |

[price on request](#) [datasheet](#)



## VACCO INDUSTRIES

### VACCO Couplings and Disconnects

Pneumatic, cryogenic and hazardous-fluid quick disconnects and human-rated T-0 couplings for launch vehicles, spacecraft and on-orbit refueling.

|                 |                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------|
| Families        | Pneumatic couplings; cryogenic fluid couplings; hazardous fluid couplings                  |
| Coupling type   | Human-rated T-0 interstage disconnects and in-space refueling mechanisms                   |
| Applications    | Fill/vent/purge/leak-check, fuel-cell and propulsion fill & drain, cryogenic vent, on-orbi |
| Flight heritage | DARPA Orbital Express (Astro/NextSat) – first robotic on-orbit fuel transfer               |

[price on request](#) [datasheet](#)



#### VACCO INDUSTRIES

### VACCO CubeSat Propulsion and ChEMS Flow Control Modules

Patented ChEMS titanium micro-manifold modules integrating valves, filters, sensors and thrusters into compact CubeSat/SmallSat propulsion feed systems.

|                     |                                                                                            |
|---------------------|--------------------------------------------------------------------------------------------|
| Technology          | ChEMS – Chemically Etched Micro Systems (patent #6,334,301), titanium micro-manifolds      |
| Filtration range    | 2 to 100 microns absolute                                                                  |
| Sensor range        | 20 to 3,000 psia                                                                           |
| Integrated elements | Valves (NC, latch, proportional), filters, sensors, cold/warm-gas thrusters, heaters, elec |
| Flight heritage     | JPL MarCO (first CubeSats to Mars), NEA Scout, CuSP, AFRL PUC                              |

[price on request](#) [datasheet](#)



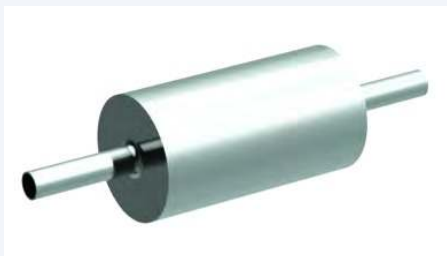
#### VACCO INDUSTRIES

### VACCO Etched Disc Propellant and Pressurant Filters

All-titanium or all-stainless-steel etched-disc filters providing 2 to 100 micron absolute filtration for spacecraft propellant and pressurant systems since 1961.

|                  |                                                                                            |
|------------------|--------------------------------------------------------------------------------------------|
| Filtration range | 2 to 100 microns absolute                                                                  |
| Materials        | All-titanium or all-stainless-steel, diffusion-bonded                                      |
| Construction     | Stacked, photochemically etched metallic discs, no welding, class-10,000 clean room assemb |
| Pressure rating  | Withstands 100% system differential pressure in forward or reverse flow                    |
| Heritage         | In production since 1961; 98% of NASA Space Shuttle filters; Mars Science Laboratory (Curi |

[price on request](#) [datasheet](#)



#### VACCO INDUSTRIES

### VACCO F1D10286-02 etched disc filter

A 2 micron absolute etched disc filter made from Titanium alloy.

|                                        |                                                                                            |
|----------------------------------------|--------------------------------------------------------------------------------------------|
| Materials of Construction              | Titanium alloy                                                                             |
| Filtration                             | 2 micron absolute                                                                          |
| Type of Media                          | Etched Discs                                                                               |
| MEOP / Proof Pressure / Burst Pressure | 4200 / 6300 / 16800 psi                                                                    |
| Delta P and Flow                       | 0.30 psid @ 0.0113 scfm of GN2 @ 295 psig & 70 °F (actual test result); 6.5 psid (cal) @ 0 |
| Temperature                            | +10 to 170 °F                                                                              |
| Environmental                          | 25.32 Grms random vibration                                                                |

[price on request](#)



#### VACCO INDUSTRIES

### VACCO F1D10588-01 Etched Disc Filter

A high pressure, low gas flow miniature etched disc filter made from titanium alloy, providing 40 micron absolute filtration.

|                                        |                                                                    |
|----------------------------------------|--------------------------------------------------------------------|
| Materials of Construction              | Titanium alloy                                                     |
| Filtration                             | 40 micron absolute                                                 |
| Type of Media                          | Etched Discs                                                       |
| MEOP / Proof Pressure / Burst Pressure | 4350 / 8700 / 17400 psi                                            |
| Leakage                                | < 1.0 x 10 <sup>-6</sup> sccs GHe at MEOP external                 |
| Delta P and Flow                       | 0.725 psid @ 0.000077 lb/sec of GHe from 319 to 4350 psig at 70 °F |
| Temperature                            | -22 to 104 °F                                                      |

[price on request](#)



#### VACCO INDUSTRIES

##### VACCO F1D10636-01 Etched Disc Filter

A high pressure, low gas flow etched disc filter made from CRES 304L, providing 10 micron absolute filtration.

|                                        |                                                                     |
|----------------------------------------|---------------------------------------------------------------------|
| Materials of Construction              | CRES 304L                                                           |
| Filtration                             | 10 micron absolute                                                  |
| Type of Media                          | Etched Discs                                                        |
| MEOP / Proof Pressure / Burst Pressure | 4800 / 7200 / 12000 psi                                             |
| Leakage                                | < 1.0 x 10 <sup>-6</sup> sccs GHe at MEOP external                  |
| Delta P and Flow                       | 19.5 psid (est) @ 0.26 lb/sec of GN2 @ 4800 psia & 70 °F            |
| Delta P and Flow                       | 5.0 psid max increase (est.) with 1.0 g AC coarse dust @ rated flow |

price on request



#### VACCO INDUSTRIES

##### VACCO F1D10638-01 Etched Disc Filter

A low liquid flow etched disc filter made from titanium alloy, providing 15 micron absolute filtration.

|                                        |                                                    |
|----------------------------------------|----------------------------------------------------|
| Materials of Construction              | Titanium alloy                                     |
| Filtration                             | 15 micron absolute                                 |
| Type of Media                          | Etched Discs                                       |
| MEOP / Proof Pressure / Burst Pressure | 600 / 900 / 1500 psi                               |
| Leakage                                | < 1.0 x 10 <sup>-6</sup> sccs GHe at MEOP external |
| Delta P and Flow                       | 7.0 psid @ 0.15 lb/sec of N2H4                     |
| Delta P and Flow                       | 15.0 psid max with 0.250 mg AC coarse dust @       |

price on request



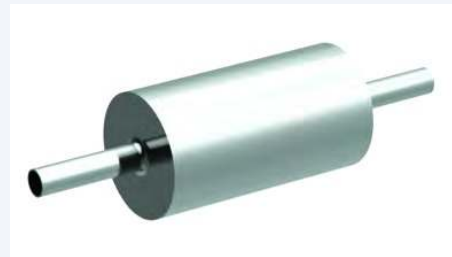
#### VACCO INDUSTRIES

##### VACCO F1D10639-01 Etched Disc filter

A medium liquid flow Etched Disc filter made from CRES 304L, providing 15 micron absolute filtration.

|                                        |                                                                                            |
|----------------------------------------|--------------------------------------------------------------------------------------------|
| Materials of Construction              | CRES 304L                                                                                  |
| Filtration                             | 15 micron absolute                                                                         |
| Type of Media                          | Etched Discs                                                                               |
| MEOP / Proof Pressure / Burst Pressure | 500 / 750 / 1250 psi                                                                       |
| Leakage                                | < 1.0 x 10 <sup>-6</sup> sccs GHe at MEOP external                                         |
| Delta P and Flow                       | 5.0 psid (cal) @ 0.90 lb/sec of N2H4 or 0.80 lb/sec of N2O4; 10.0 psid max increase (est.) |
| Temperature                            | +40 to 120 °F                                                                              |

price on request



#### VACCO INDUSTRIES

##### VACCO F1D10784-01 etched disc filter for Xenon application

A 5 micron absolute etched disc filter made from Titanium alloy, specifically for Xenon applications.

|                                        |                                            |
|----------------------------------------|--------------------------------------------|
| Materials of Construction              | Titanium alloy                             |
| Filtration                             | 5 micron absolute                          |
| Type of Media                          | Etched Discs                               |
| MEOP / Proof Pressure / Burst Pressure | 2610 / 5220 / 10440 psi                    |
| Delta P and Flow                       | 1.45 psid max. @ 0.20 mg/s of xenon @ MEOP |
| Temperature                            | +14 to 140 °F                              |
| Environmental                          | 24.3 Grms random vibration                 |

price on request





#### VACCO INDUSTRIES

##### VACCO F1D10807-02 Etched Disc Filter

A low liquid flow miniature etched disc filter made from titanium alloy, providing 15 micron absolute filtration.

|                                        |                                                    |
|----------------------------------------|----------------------------------------------------|
| Materials of Construction              | Titanium alloy                                     |
| Filtration                             | 15 micron absolute                                 |
| Type of Media                          | Etched Discs                                       |
| MEOP / Proof Pressure / Burst Pressure | 300 /1000 / 12500 psi                              |
| Leakage                                | < 1.0 x 10 <sup>-6</sup> sccs GHe at MEOP external |
| Delta P and Flow                       | 1.50 psid @ 0.01539 lb/sec of N2H4                 |
| Delta P and Flow                       | 9.0 psid max. with 45 mg of AC coarse dust added   |

[price on request](#)



#### VACCO INDUSTRIES

##### VACCO Fill and Drain Valves

Manually operated high- and low-pressure service valves for filling and draining gases and propellants on spacecraft and missiles.

|                     |                                                                                       |
|---------------------|---------------------------------------------------------------------------------------|
| Types               | High pressure and low pressure fill & drain (service) valves                          |
| Operation           | Manual, anti-rotation rising-stem design                                              |
| Sealing             | Two or three redundant seals against external leakage                                 |
| Example application | 1/4 in. high-pressure gas fill & drain valve for helium/xenon on Spacebus UPS and PPS |

[price on request](#)

[datasheet](#)



#### VACCO INDUSTRIES

##### VACCO JPL MarCO Micro Propulsion System

The VACCO JPL MarCO Micro Propulsion System is a smart, self-contained propulsion module designed for 6U CubeSats, featuring a system-in-a-tank design and flight heritage on the fi

|                     |                                    |
|---------------------|------------------------------------|
| Total Impulse       | 755 N-Sec                          |
| Wet Mass            | 3490 gram                          |
| Performance Density | 354 N-sec/Liter                    |
| Thrusters           | (4) Axial & (4) RCS 25mN Thrusters |
| Leakage Protection  | Two Interrupts Against Leakage     |
| Standby Power       | 0.5 Watt                           |
| Interface           | RS422 Digital Interface            |

[price on request](#)

[datasheet](#)



#### VACCO INDUSTRIES

##### VACCO Latch Valves / Isolation Valves

Flight-proven high- and low-pressure latch (isolation) valves used across commercial and government satellite propulsion systems since 1988.

|                        |                                                                                |
|------------------------|--------------------------------------------------------------------------------|
| Valve type             | High-pressure latch, low-pressure latch, positive isolation                    |
| Max operating pressure | Up to 5,000 psia (350 bar)                                                     |
| Materials              | Titanium or stainless steel                                                    |
| Inlet filtration       | Integral etched-disc filter                                                    |
| Heritage               | In production since 1988                                                       |
| Flight heritage        | Boeing HS601/HS702, Astrium Eurostar 3000, Mitsubishi DS2000, ATV, HTV, Cygnus |

[price on request](#)

[datasheet](#)





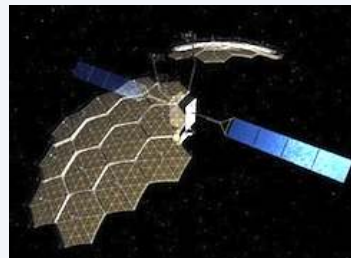
## VACCO INDUSTRIES

### VACCO Propellant Latch Valve

The VACCO Propellant Latch Valve is a fluid control component designed for spacecraft and satellite applications, offering variations for low to high flow and operating pressures u

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Operating Pressure | up to 5000 psia (350 bar)                                                                 |
| Flow               | Low to High                                                                               |
| Introduction Year  | 1988                                                                                      |
| Flight Heritage    | Boeing HS-702 satellite, various Boeing platforms, vehicles resupplying the International |

[price on request](#) [datasheet](#)



## VACCO INDUSTRIES

### VACCO Space Component Integration Modules

Flight-qualified subsystem integration of VACCO valves, regulators, filters and torque-motor isolation valves into xenon flow control and pressure regulation modules and panel asse

|                           |                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------|
| Integrated products       | Xenon Flow Control Modules, Xenon Pressure Regulation Modules, pressurization/propellant v |
| Building-block components | Torque-motor isolation valves, fill & drain valves, pressure regulators, check valves, all |
| Services                  | Subsystem-level performance and cleanliness verification, integration and test             |
| Flight heritage           | JAXA ETS-VIII satellite                                                                    |

[price on request](#) [datasheet](#)



## VACCO INDUSTRIES

### VACCO Surface Tension Elements / Propellant Management Devices (PMD)

Wintec fine-mesh surface tension elements that separate free gas from liquid propellant for zero-gravity propellant management devices in satellite fuel tanks.

|                    |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
| Technology         | Wintec fine woven metal mesh surface tension elements (STE)                   |
| Function           | Gas/liquid separation for propellant management devices (PMD) in zero gravity |
| Applications       | Satellite propellant tank PMDs, cruise missile fuel systems                   |
| Reference platform | Tomahawk Block IV cruise missile fuel system                                  |

[price on request](#) [datasheet](#)



## VACCO INDUSTRIES

### VACCO Thruster Valves

Monopropellant, bipropellant and cold-gas thruster valves for attitude control, reaction control and orbital maneuvering, including the Cold Gas Triad Thruster.

|                         |                                                                           |
|-------------------------|---------------------------------------------------------------------------|
| Valve types             | Monopropellant, bipropellant, cold-gas thruster valves                    |
| Cold Gas Triad Thruster | 3 x 2 lbf thrusters on a common X/Y/Z manifold block                      |
| Design feature          | Low-friction suspended-armature design                                    |
| Flight heritage         | Space Shuttle Manned Maneuvering Unit (MMU) – 4 triad assemblies per unit |

[price on request](#) [datasheet](#)



## VACCO INDUSTRIES

### VACCO Universal Satellite Pressure Regulator (VUSPR)

High-precision pressure regulator family flying on human-spaceflight and commercial satellite platforms, from the Space Shuttle to NASA's Mars Science Laboratory descent stage.

|                     |                                                                       |
|---------------------|-----------------------------------------------------------------------|
| Configurations      | Single-stage to series-redundant; hard-seat and soft-seat             |
| Max flow            | Up to 1.0 lbm/sec (high-flow designs)                                 |
| Compatible media    | Argon, helium, iodine, nitrogen, oxygen, water, xenon                 |
| Qualified platforms | Alphabus, Spacebus, Eurostar, A2100, GPS III, GOES                    |
| Flight heritage     | Space Shuttle, SLS, Mars Science Laboratory (Curiosity) descent stage |

price on request



## VACCO INDUSTRIES

### VACCO V1E10362-01 Low Pressure Dual Coil 3/8" Latch Valve

A 3/8" low-pressure latch valve with dual coils for redundancy, featuring all-titanium construction, flight qualification, and an integral microswitch.

|                          |                    |
|--------------------------|--------------------|
| Operating Pressure Range | 260 psig           |
| Operating Temperature    | 14° to 150° F      |
| Proof Pressure           | 600 psig           |
| Response Time (Opening)  | 50 msec @ 43 VDC   |
| Burst Pressure           | 1600 psig          |
| Response Time (Closing)  | 50 msec @ 21.5 VDC |
| Flow                     | 0.175 lbm/sec H2O  |

price on request



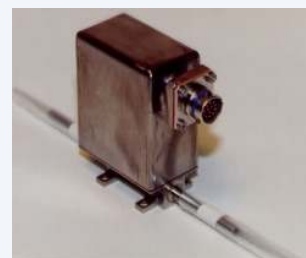
## VACCO INDUSTRIES

### VACCO V1E10362-04 Low Pressure Dual Coil 3/8" Latch Valve

A flight-qualified, all-titanium 3/8" latch valve with dual coils for redundancy, designed for high reliability and tight leakage in space applications.

|                          |                   |
|--------------------------|-------------------|
| Operating Pressure Range | 260 psig          |
| Operating Temperature    | 14° to 150° F     |
| Proof Pressure           | 600 psig          |
| Burst Pressure           | 1600 psig         |
| Flow                     | 0.175 lbm/sec H2O |
| Pressure Drop            | 4 psid            |
| Internal Leakage         | <5.0 scch GHe     |

price on request



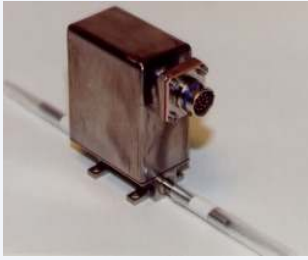
## VACCO INDUSTRIES

### VACCO V1E10405-04 Low Pressure 1/4" Latch Valve

A flight-qualified, all-titanium 1/4" low-pressure latch valve with an integral microswitch, designed for high reliability and quick response.

|                          |                   |
|--------------------------|-------------------|
| Operating Pressure Range | 400 psig          |
| Operating Temperature    | +30° to 150° F    |
| Proof Pressure           | 900 psig          |
| Burst Pressure           | 2400 psig         |
| Flow                     | 0.025 lbm/sec H2O |
| Pressure Drop            | <15 psid          |
| Internal Leakage         | <5.0 scch GHe     |

price on request



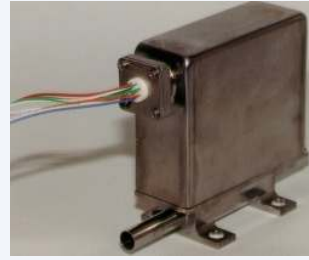
#### VACCO INDUSTRIES

##### VACCO V1E10405-05 Low Pressure 1/4" Latch Valve

A flight-qualified, all-titanium 1/4" low-pressure latch valve with an integral microswitch, designed for high reliability and quick response.

|                          |                   |
|--------------------------|-------------------|
| Operating Pressure Range | 450 psig          |
| Operating Temperature    | +30° to 160° F    |
| Proof Pressure           | 900 psig          |
| Burst Pressure           | 2400 psig         |
| Flow                     | 0.025 lbm/sec H2O |
| Pressure Drop            | <15 psid          |
| Internal Leakage         | <5.0 scch GHe     |

price on request



#### VACCO INDUSTRIES

##### VACCO V1E10453-01 3/8" Low Pressure Propellant Latch Valve

A flight-qualified, all-titanium 3/8-inch low-pressure propellant latch valve with a 150,000 cycle life, designed for high reliability and quick response, featuring a 40μ absolute

|                          |                         |
|--------------------------|-------------------------|
| Operating Pressure Range | 300 psig                |
| Operating Temperature    | +40° to 120° F          |
| Proof Pressure           | 750 psig                |
| Burst Pressure           | 1250 psig               |
| Flow                     | 0.4 lbm/sec H2O         |
| Pressure Drop            | 19 psid (at rated flow) |
| Internal Leakage         | 10.0 scch GHe           |

price on request



#### VACCO INDUSTRIES

##### VACCO V1E10454-01 1/4" Low Pressure Latch Valve

A flight-qualified, all-titanium 1/4-inch low-pressure latch valve designed for high reliability and quick response, featuring a 40μ absolute inlet filter and 304L stainless steel

|                          |                  |
|--------------------------|------------------|
| Operating Pressure Range | 450 psig         |
| Operating Temperature    | +40° to 120° F   |
| Proof Pressure           | 975 psig         |
| Burst Pressure           | 1625 psig        |
| Flow                     | 0.07 lbm/sec H2O |
| Pressure Drop            | <12 psid         |
| Internal Leakage         | <10.0 scch GN2   |

price on request



#### VACCO INDUSTRIES

##### VACCO V1E10689-01 1/2" Bi-Directional Latch Valve-Low Pressure

A flight-qualified 1/2" bi-directional low-pressure latch valve with all-titanium construction, two integral microswitches, and a cycle life exceeding 150,000.

|                                   |               |
|-----------------------------------|---------------|
| Operating Pressure Range          | 250 psig      |
| Operating Temperature             | 30° to 150° F |
| Proof Pressure                    | 1,950 psig    |
| Burst Pressure                    | 2,600 psig    |
| Flow                              | 1.0 GPM H2O   |
| Pressure Drop (Forward Direction) | 6 psid        |
| Pressure Drop (Reverse Direction) | 5 psid        |

price on request



VACCO INDUSTRIES

**VACCO V1E10691-01 1/2" Bi-Directional Latch Valve-Low Pressure**

A 1/2" bi-directional latch valve designed for low-pressure applications, featuring all-titanium construction and proven torque tube technology for high reliability and quick respons

|                          |                           |
|--------------------------|---------------------------|
| Operating Pressure Range | 250 psig                  |
| Weight                   | 1.65 lbm (750 grams)      |
| Proof Pressure           | 1,950 psig                |
| Operating Temperature    | 30° to 150° F             |
| Burst Pressure           | 2,600 psig                |
| Open Response Time       | 80 ms @ 28 VDC @ 350 psig |
| Back Pressure Relief     | 260 – 300 psid            |

price on request



VACCO INDUSTRIES

**VACCO Wintec Metal Mesh Filters**

Patented all-metal woven mesh filters for cryogenic, propellant and pressurant fluid systems, flying on the Lockheed Martin A2100 satellite bus.

|              |                                                                                            |
|--------------|--------------------------------------------------------------------------------------------|
| Technology   | Wintec woven metal mesh, patented edge-encapsulation process                               |
| Materials    | Stainless steel and titanium<br>micronic woven cloth                                       |
| Applications | Cryogenic, propellant and pressurant filtration for launch vehicles, spacecraft, missiles  |
| Heritage     | In production since 1964; Lockheed Martin A2100 satellite bus propulsion pressurant system |

price on request

## Contact VACCO Industries

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

<https://newspacemarket.com/companies/vacco-industries/>

<https://vacco.com>

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