

VIGOUR

We offer solutions regarding your ideas!

ULTRA HIGH PURITY GAS SYSTEM

Gas
Control
Solutions



VUPS

VHPS

VIGS

VGDS

VIGOUR

PRECISE MANUFACTURING SERVING THE WORLD

BRAND INTRODUCTION

VIGOUR leads in technological innovation, adhering to the core principles of "safety, ultra-cleanliness, and pinpoint precision." Our mission is to provide gas control systems that are safe, stable, reliable, and customized to meet the needs of industrial manufacturing processes. By ensuring these systems operate securely and continuously, we drive industry progress and enable smooth industrial upgrades.



SAFETY



STEADINESS



RELIABILITY

ACTURING ORLD



ABOUT VIGOUR



VIGOUR is an internationally leading provider of gas control system solutions. With operations in three major offices and production centers worldwide, we integrate production, sales, and R&D. Vigour specialize in creating equipment for gas pressure control, gas supply systems, monitoring systems, and instrumentation for industries like:

- Semiconductors: Providing complete gas control system solutions for processes like etching, diffusion, ion implantation, and thin-film deposition.
- Photovoltaics
- Hydrogen Energy
- Laboratory Applications

VIGOUR's been recognized as a "specialized, sophisticated, distinctive, and innovative" enterprise and a high-tech enterprise globally. We are certified under EU CE (PED ISO 2503), ISO 9001, ISO14001, ISO45001, RoHS, and CGA, with our own invention patents.

**VSR-50UB Series**

Single stage pressure regulator

Surface finish: 10/25 μ m. Ra

Inlet pressure: 150 psig

Outlet pressure: Vac to /10/30/60/100 psig

Cv: 0.06 / 0.1

Material: 316L

**VSR-100UB Series**

Single stage pressure regulator

Surface finish: 10/25 μ m. Ra

Inlet pressure: 300/3500 psig

Outlet pressure: Vac to /10/30/60/100/150 psig

Cv: 0.09 / 0.15

Material: 316L

**VSR-1000UB Series**

Single stage pressure regulator

Surface finish: 10/25 μ m. Ra

Inlet pressure: 300/3500 psig

Outlet pressure: Vac to /10/30/60/100/150 psig

Cv: 0.09 / 0.15

Material: 316L

**VSR-210UB Series**

Single stage pressure regulator

Surface finish: 10/25 μ m. Ra

Inlet pressure: 300/1700/3000 psig

Outlet pressure: Vac to /30/60/100/150 psig

Cv: 0.65 / 1.1

Material: 316L

**VSR-410UB Series**

Single stage pressure regulator

Surface finish: 10/25 μ m. Ra

Inlet pressure: 300/2300/3000 psig

Outlet pressure: Vac to /30/60/100/150 psig

Cv: 0.45

Material: 316L

**VSR-510UB Series**

Single stage pressure regulator

Surface finish: 10/25 μ m. Ra

Inlet pressure: 300/3500 psig

Outlet pressure: Vac to /30/60/100/150 psig

Cv: 0.09 / 0.15

Material: 316L

**VSR-610UB Series**

Single stage pressure regulator

Surface finish: 10/25 μ m. Ra

Inlet pressure: 300/3500 psig

Outlet pressure: Vac to /10/30/60/100 psig

Cv: 0.13

Material: 316L

**VSR-710UB Series**

Dual stage pressure regulator

Surface finish: 10/25 μ m. Ra

Inlet pressure: 3500 psig

Outlet pressure: Vac to /30/60/100 psig

Cv: 0.05

Material: 316L

**VSR-910UB Series**

Single stage pressure regulator

Surface finish: 10/15 μ m. Ra

Inlet pressure: 800/1700/3000 psig

Outlet pressure: Vac to /30/60/100/150 psig

Cv: 3.0 / 4.0

Material: 316L

**VSR-911UB Series**

Single stage pressure regulator

Surface finish: 10/15 μ m. Ra

Inlet pressure: 800/1700/3000 psig

Outlet pressure: 300 psig

Cv: 3.0 / 4.0

Material: 316L

**VSR-920UB Series**

Single stage pressure regulator

Surface finish: 10 μ m. Ra

Inlet pressure: 300 psig

Outlet pressure: Vac to /30/60/100/150 psig

Cv: 1.6

Material: 316L

**VSR-930UB Series**

Single stage pressure regulator

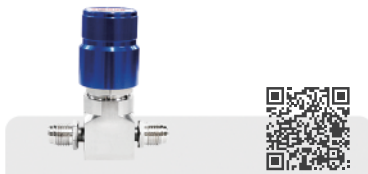
Surface finish: 10/25 μ m. Ra

Inlet pressure: 5800 psig

Outlet pressure: 25~500 / 100~2500 psig

Cv: 0.09 / 0.15

Material: 316L

**VSR-50UC Series**

Single stage pressure regulator

Surface finish: 5/7/10 $\mu\text{in. Ra}$

Inlet pressure: 150 psig

Outlet pressure: Vac to /10/30/60/100 psig

Cv: 0.06 / 0.1

Material: 316L secondary remelt

**VSR-100UC Series**

Single stage pressure regulator

Surface finish: 5/7/10 $\mu\text{in. Ra}$

Inlet pressure: 300/3500 psig

Outlet pressure: Vac to /10/30/60/100/150 psig

Cv: 0.09 / 0.15

Material: 316L secondary remelt

**VSR-1000UC Series**

Single stage pressure regulator

Surface finish: 5/7/10 $\mu\text{in. Ra}$

Inlet pressure: 300/3500 psig

Outlet pressure: Vac to /10/30/60/100/150 psig

Cv: 0.09 / 0.15

Material: 316L secondary remelt

**VSR-210UC Series**

Single stage pressure regulator

Surface finish: 5/7/10 $\mu\text{in. Ra}$

Inlet pressure: 300/1700/3000 psig

Outlet pressure: Vac to /30/60/100/150 psig

Cv: 0.65 / 1.1

Material: 316L secondary remelt

**VSR-410UC Series**

Single stage pressure regulator

Surface finish: 5/7/10 $\mu\text{in. Ra}$

Inlet pressure: 300/2300/3000 psig

Outlet pressure: Vac to /30/60/100/150 psig

Cv: 0.45

Material: 316L secondary remelt

**VSR-510UC Series**

Single stage pressure regulator

Surface finish: 5/7/10 $\mu\text{in. Ra}$

Inlet pressure: 300/3500 psig

Outlet pressure: Vac to /30/60/100/150 psig

Cv: 0.09 / 0.15

Material: 316L secondary remelt

**VSR-610UC Series**

Single stage pressure regulator

Surface finish: 5/7/10 $\mu\text{in. Ra}$

Inlet pressure: 300/3500 psig

Outlet pressure: Vac to /10/30/60/100 psig

Cv: 0.13

Material: 316L secondary remelt

**VSR-710UC Series**

Dual stage pressure regulator

Surface finish: 5/7/10 $\mu\text{in. Ra}$

Inlet pressure: 3500 psig

Outlet pressure: Vac to /30/60/100 psig

Cv: 0.05

Material: 316L secondary remelt

**VSR-920UC Series**

Single stage pressure regulator

Surface finish: 5/7/10 $\mu\text{in. Ra}$

Inlet pressure: 300 psig

Outlet pressure: Vac to /30/60/100/150 psig

Cv: 1.6

Material: 316L secondary remelt

**VDV32UA Series**

Diaphragm Valve

Pressure: Max. 150 psig

Connection: 1/4" 3/8" 1/2" Tube fitting

Cv: 0.3 / 0.65

Material: 316L

**VDV33UA Series**

Diaphragm Valve

Pressure: Max. 3000 psig

Connection: 1/4" 3/8" 1/2" Tube fitting

Cv: 0.27 / 0.5

Material: 316L

**VDV32UB Series**

Diaphragm Valve

Pressure: Max. 150 psig

Surface finish: 10 µin. Ra

Connection: 1/4" 3/8" 1/2" VFS fitting / tube weld

Cv: 0.3 / 0.65

Material: 316L

**VDV33UB Series**

Diaphragm Valve

Pressure: Max. 3000 psig

Surface finish: 10 µin. Ra

Connection: 1/4" 3/8" 1/2" VFS fitting / tube weld

Cv: 0.27 / 0.5

Material: 316L

**VDV42UB Series**

Diaphragm Valve

Pressure: Max. 300 psig

Surface finish: 10 µin. Ra

Connection: 1/4" 3/8" 1/2" VFS fitting / tube weld

Cv: 0.3 / 0.65

Material: 316L

**VDV52UB Series**

Diaphragm Valve

Pressure: Max. 300 psig

Surface finish: 10 µin. Ra

Connection: 1/4" 3/8" 1/2" VFS fitting / tube weld

Cv: 0.3 / 0.65

Material: 316L

**VDV22UB Series**

Diaphragm Valve

Pressure: Max. 150 psig

Surface finish: 10 µin. Ra

Connection: 1/4" 1/2" VFS fitting

Cv: 0.3 / 0.65

Material: 316L

**VDV36UB Series**

Low-pressure Diaphragm Valve Manifold

Pressure: Max. 150 psig

Surface finish: 10 µin. Ra

Connection: 1/4" VFS fitting / tube weld

Cv: 0.3

Material: 316L

**VDV46UB Series**

High-pressure Diaphragm Valve Manifold

Pressure: Max. 3000 psig

Surface finish: 10 µin. Ra

Connection: 1/4" VFS fitting / tube weld

Cv: 0.1

Material: 316L

**VDV37UB Series**

Diaphragm Valve

Pressure: Max. 250 psig

Surface finish: 10 µin. Ra

Connection: 3/4" 1/2" VFS fitting

Cv: 2.8

Material: 316L

**VDV38UB Series**

Diaphragm Valve

Pressure: Max. 1300 / 3000 psig

Surface finish: 10 µin. Ra

Connection: 1/4" 1/2" 3/4" VFS fitting / tube weld

Cv: 1.0 manual, 1.0 / 0.7 pneumatic

Material: 316L

**VDV39UB Series**

Diaphragm Valve

Pressure: Max. 270 psig

Surface finish: 10 µin. Ra

Connection: 3/4" 1/2" VFS fitting / tube weld

Cv: 2.8

Material: 316L

**VDV40UB Series**

Diaphragm Valve

Pressure:	Max. 3000 psig
Surface finish:	10 µin. Ra
Connection:	1/4" 1/2" VFS fitting 1/4" 3/8" tube weld
Cv:	0.29 manual, 0.23 pneumatic
Material:	316L

**VDV32UC Series**

Diaphragm Valve

Pressure:	Max. 150 psig
Surface finish:	7 µin. Ra
Connection:	1/4" 3/8" 1/2" VFS fitting / tube weld
Cv:	0.3 / 0.65
Material:	316L secondary remelt

**VDV33UC Series**

Diaphragm Valve

Pressure:	Max. 3000 psig
Surface finish:	7 µin. Ra
Connection:	1/4" 3/8" 1/2" VFS fitting / tube weld
Cv:	0.27 / 0.5
Material:	316L secondary remelt

**VDV42UC Series**

Diaphragm Valve

Pressure:	Max. 300 psig
Surface finish:	7 µin. Ra
Connection:	1/4" 3/8" 1/2" VFS fitting / tube weld
Cv:	0.3 / 0.65
Material:	316L secondary remelt

**VDV52UC Series**

Diaphragm Valve

Pressure:	Max. 300 psig
Surface finish:	7 µin. Ra
Connection:	1/4" 3/8" 1/2" VFS fitting / tube weld
Cv:	0.3 / 0.65
Material:	316L secondary remelt

**VDV36UC Series**

Low-pressure Diaphragm Valve Manifold

Pressure:	Max. 150 / 3000 psig
Surface finish:	7 µin. Ra
Connection:	1/4" VFS fitting / tube weld
Cv:	0.3
Material:	316L secondary remelt

**VDV46UC Series**

High-pressure Diaphragm Valve Manifold

Pressure:	Max. 3000 psig
Surface finish:	7 µin. Ra
Connection:	1/4" VFS fitting / tube weld
Cv:	0.1
Material:	316L secondary remelt

**VDV37UC Series**

Diaphragm Valve

Pressure:	Max. 250 psig
Surface finish:	7 µin. Ra
Connection:	3/4" 1/2" VFS fitting
Cv:	2.8
Material:	316L secondary remelt

**VDV38UC Series**

Diaphragm Valve

Pressure:	Max. 1300 / 3000 psig
Surface finish:	7 µin. Ra
Connection:	1/4" 1/2" 3/4" VFS fitting / tube weld
Cv:	1.0 manual, 1.0 / 0.7 pneumatic
Material:	316L secondary remelt

**VDV40UC Series**

Diaphragm Valve

Pressure:	Max. 3000 psig
Surface finish:	7 µin. Ra
Connection:	1/4" 1/2" VFS fitting 1/4" 3/8" tube weld
Cv:	0.29 manual, 0.23 pneumatic
Material:	316L secondary remelt



VUBV Series

Bellows Valve

Manual pressure:	Vacuum to 500 psig
Pneumatic pressure:	Vacuum to 125 psig
Connection:	1/4" VFS fitting / Tube fitting
Cv:	0.3
Material:	316L



VUBV2 Series

Bellows Valve

Manual pressure:	Vacuum to 375 psig
Pneumatic pressure:	Vacuum to 250 psig
Connection:	3/4" 1" VFS fitting
	3/4" 1" 1.5" 2" Tube weld
Cv:	14.5 / 21 / 46 / 52
Material:	316L



VALD Series

Atomic Layer Deposition Valve

Pressure:	Max. 150 psig
Connection:	1/4" VFS fitting / tube weld
Optional:	Solenoid pilot valve
	Electronic actuator-position sensor
Cv:	0.27
Material:	316L / 316L secondary remelt



VBMV Series

Metering Bellows Valve

Pressure:	Max. 700 psig
Connection:	1/4" 6mm Tube fitting
	1/4" VFS male
Cv:	0.019 / 0.30
Material:	316



VMV Series

Metering Valve

Pressure:	Max. 2000 psig
Connection:	1/4" 1/8" 6mm 3mm tube fitting
	1/4" 1/8" NPT, 1/4" VFS fitting
Cv:	0.004 / 0.03 / 0.16
Material:	316



VUP Series

Gas Stick

Series:	100TG / 200TG / 300TG
Inlet pressure:	Max. 300 psig
Outlet pressure:	Vac to /10/30/60/100/150 psig
Connection:	1/4" 1/2" VFS fitting
Material:	316L



VUP-1U Series

Pressure Control Panel

Type:	Single side type
Inlet pressure:	300 / 3500 psig
Outlet pressure:	Vac to 10/30/60/100/150 psig
Cv:	0.09 / 0.15



VUP-2U Series

Pressure Control Panel

Type:	Two-sided type
Inlet pressure:	300 / 3500 psig
Outlet pressure:	Vac to 10/30/60/100/150 psig
Cv:	0.09 / 0.15



VUP-3U Series

Pressure Control Panel

Type:	Automatic change-over
Inlet pressure:	300 / 3500 psig
Outlet pressure:	Vac to 10/30/60/100/150 psig
Cv:	0.09 / 0.15



VUP-4U Series

Pressure Control Panel

Type:	Single side type
Inlet pressure:	300 / 1700 / 3000 psig
Outlet pressure:	Vac to 30/60/100/150 psig
Cv:	0.65 / 1.1 (HF optional)



VUP-5U Series

Pressure Control Panel

Type:	Two-sided type
Inlet pressure:	300 / 1700 / 3000 psig
Outlet pressure:	Vac to 30/60/100/150 psig
Cv:	0.65 / 1.1 (HF optional)



VUP-6U Series

Pressure Control Panel

Type:	Automatic change-over
Inlet pressure:	300 / 1700 / 3000 psig
Outlet pressure:	Vac to /30/60/100/150 psig
Cv:	0.65 / 1.1 (HF optional)



VVG Series

Vacuum Generator

Vacuum port pressure: Max. 70psig

Outlet connection: 1/2" VFS fitting

Vacuum connection: 1/4" VFS fitting

Material: 316L



VVG V1 Series

Vacuum Generator

Vacuum port pressure: Max. 3500 psig

Inlet / Outlet: 1/4" 1/2" VFS fitting

3/8" Tube weld

Vacuum connection: 1/4" VFS fitting / Tube weld

Material: 316L



VVG V2 Series

Vacuum Generator

Vacuum port pressure: Max. 3000 psig

Inlet / Outlet: 1/4" 1/2" VFS fitting

3/8" Tube weld

Vacuum connection: 1/4" VFS fitting / Tube weld

Material: 316L



VCVH Series

Check Valve

Working pressure: Max. 4500 psig

Opening pressure: 1/3 psig, 1psig

Connection: 1/4" 1/2" 3/4" VFS fitting

O-ring material: FKM / EPDM / FFKM

Body material: 316L / Hastelloy® C276



VUCV Series

All-Welded Check Valve

Working pressure: Max. 3000 psig

Opening pressure: <2 psig

Connection: 1/4" 1/2" VFS fitting

O-ring material: FKM

Body material: 316L / Hastelloy® C276



VCA Series

Adjustable Check Valve

Working pressure: Max. 3000 psig

Opening pressure: 3~350psig

Connection: 1/4" 6mm 8mm Tube fitting,
1/4" VFS male, 1/4" NPT male

O-ring material: FKM / EPDM / FFKM

Body material: 316L



VFH Series

Filter

Filtration accuracy: 0.5/2/5/10/20/40/70 µm

Connection: 1/4" 1/2" VFS fitting

Gasket material: 316L / PTFE

Body material: 316L



VUF Series

Filter

Filtration accuracy: 0.003µm

Connection: 1/4" 1/2" VFS fitting

Filter material: PTFE

Shell material: 316L



VUGF Series

Gasket Filter

Filtration accuracy: 0.003µm

Gasket size: 1/4" 3/8" 1/2" VFS Gasket

Gasket material: 316L / Nickel

Body material: 316L



VEFS1 Series

Flow Switch

Pressure: vacuum to 3500 psig

Accuracy: ±10%

Installation: Vertical within 8° and inlet port at the bottom

Connection: 1/4" VFS fitting / Tube weld

Material: SS 316L VAR



VRU / VGU Series

Pressure Gauge

Type: Radial direction / Axial direction

Scale: bar / psig dual scale

Connection: 1/4" VFS fitting

Size: 2"

Accuracy: Grade A per ASME B40.1



VRT / VGT Series

Pressure Gauge

Type: Radial direction / Axial direction

Scale: bar / psig dual scale

Connection: 1/4" 6mm Tube fitting

Size: 2"

Accuracy: Grade A per ASME B40.1



VGU20SE / VRU20SE Series

Contact Gauge

Type:	Radial direction / Axial direction
Scale:	bar / psig dual scale
Connection:	1/4" VFS fitting
Size:	2"
Accuracy:	±2.5%



VCG20S / VRG20S Series

Contact Gauge

Type:	Radial direction / Axial direction
Scale:	bar / psig dual scale
Connection:	1/4" VFS fitting
Size:	2"
Accuracy:	Grade A per ASME B40.1



VUC Series

Cylinder Connection

Connection:	6mm Tube fitting
	1/4" 6mm Tube weld
Surface finish:	10/15 µin. Ra
Material:	316L



VUC DISS Series

Cylinder Connection

Connection:	1/4" VFS fitting
	1/4" 1/2" Tube weld
Gasket material:	Nickle / PCTFE
Body material:	316L



Connector Fitting Series

VFS / Micro Weld / Tube Butt Weld / Weld Assemblé

Type:	Long Elbow / Reducing Long Elbow
	Long Tee / Reducing Long Tee
	Reducing Long Union
	Fitting Lock Device

VIGOUR

VUPS
ULTRA HIGH PURITY
GAS SYSTEM



VHPS
HIGH PURITY
GAS SYSTEM



VIGS
INTEGRATED
GAS SYSTEM



VGDS
GAS DELIVERY
SYSTEM



High-efficiency response



Accurate management and control



Customized service

VIGOUR

We offer solutions regarding your ideas!

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