

VIGOUR

We offer solutions regarding your ideas!

INTEGRATED GAS SYSTEM

Gas
Control
Solutions



VIGS
VHPS
VUPS
VGDS

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VespeI® is registered trademark of Dupont Specialty Metals.

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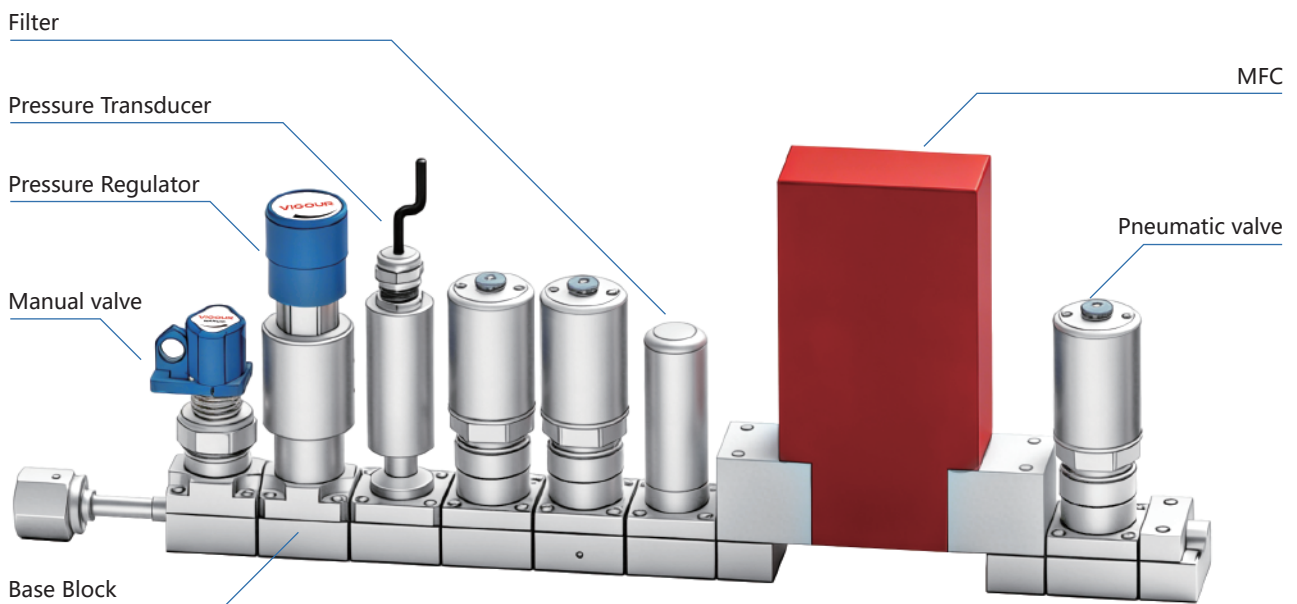
W-seal Gaskets | P16

VIG Series p16

Integrated Gas Systems

Product Features

- Used for gas control in the semiconductor industry.
- Modular design
- All components are surface mounted in accordance with SEMI standard
- The size is about 1/3 the traditional panel
- SEMI standard material, electropolishing process and orbital welding
- W-seal and C-seal optional
- Double bagged in cleanroom
- All products, except "brackets", are all produced in accordance with the VS001A process specification.



Technical Data

Process Specification	Ultra High Purity
Surface Finish:	Max. 5 µin. Ra
body:	316L VIM-VAR

IGS Pressure Regulators VIR Series

Product Features

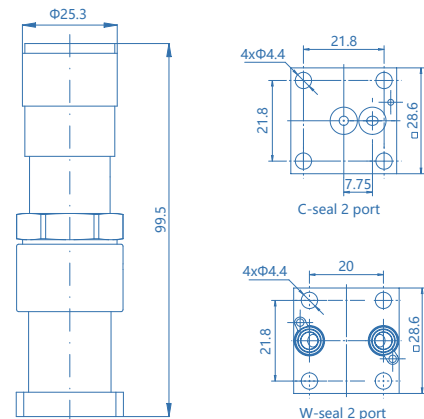
- Metal-to-metal seal to atmosphere
- W-seal and C-seal optional
- The surface finish: Max. 5µin. Ra
- Material: 316L VIM-VAR
- 100% Helium-leak-tested



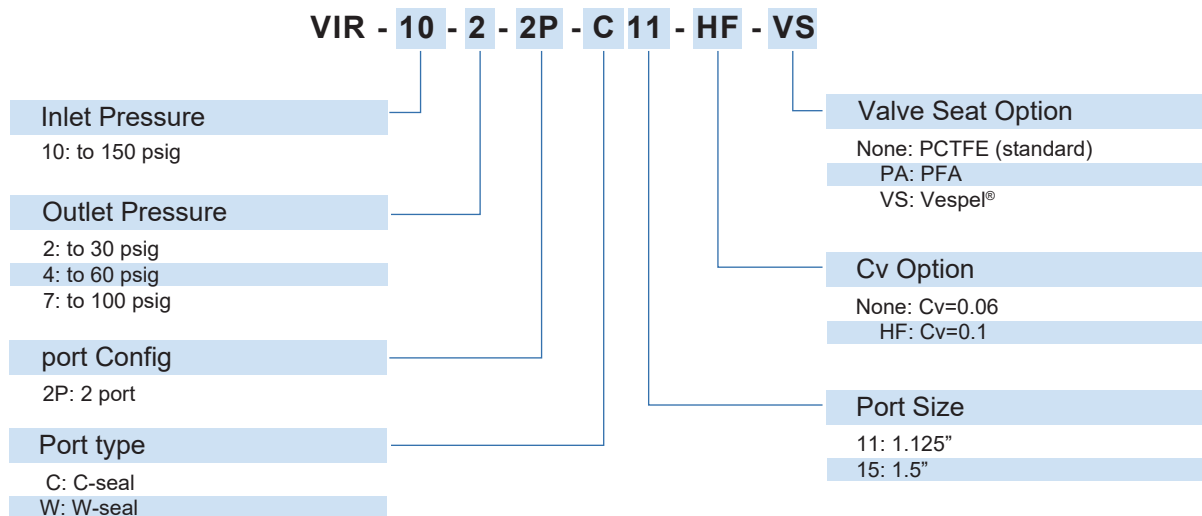
Technical Data

Max. Working Pressure:	150 psig
Max. Working Temp:	-40°F~140°F(-40°C~60°C)
Outlet Pressure:	0~100 psig
Surface Finish:	Max. 5 µin. Ra
Materials	
Body:	316L VIM-VAR
Valve Seat:	PCTFE (PFA / Vespel® optional)
Diaphragm:	Hastelloy® C276
Leak Rate: (to atmosphere)	1x10 ⁻⁹ mbar l/s He
(via seat)	1x10 ⁻⁸ mbar l/s He
Flow Capacity:	Cv=0.06 (Cv=0.1 optional)

Dimensions (mm)



Ordering Information



IGS Diaphragm Valves VID Series

Product Features

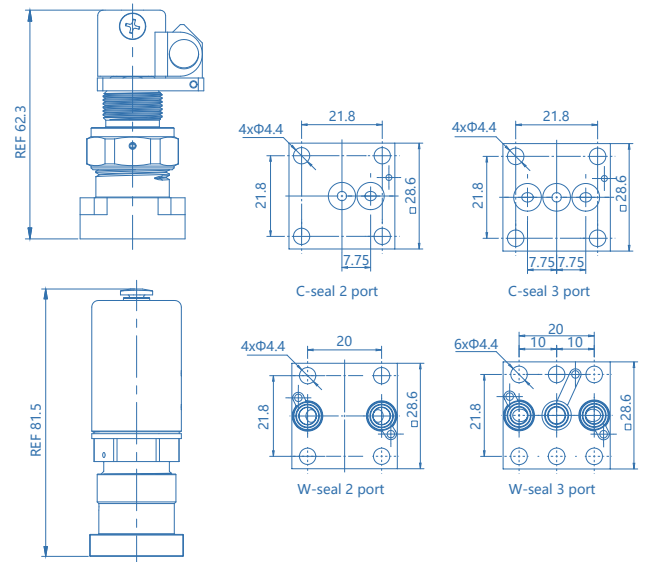
- W-seal and C-seal optional
- No dead end design
- The wet surface is treated with EP, Max. 5µin. Ra.
- Material: 316L VIM-VAR
- 100% Helium-leak-tested



Technical Data

Max. Working Pressure:	150 psig
Max. Working Temp:	PCTFE 14°F~176°F (-10°C~80°C) PFA 14°F~302°F (-10°C~150°C)
Surface Finish:	Max. 5 µin. Ra
Materials	
Body:	316L VIM-VAR
Valve seat:	PCTFE (PFA / Vespel® optional)
Diaphragm:	Elgiloy®
Leak rate: (to atmosphere)	1x10 ⁻⁹ mbar l/s He
(via seat)	1x10 ⁻⁹ mbar l/s He
Flow Capacity:	Cv=0.1

Dimensions (mm)

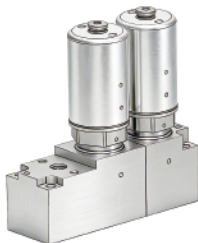


Ordering Information

VID - M - 2P - C 11 - VS

Actuator

M: manual actuator
PC: pneumatic actuator, normally closed



Customized Block Valve Manifolds,
Designed and manufactured according
to customer requirements.

Valve Seat Option

None: PCTFE (standard)
PA: PFA
VS: Vespel®

Port Size

11: 1.125"
15: 1.5"

Port type

C: C-seal
W: W-seal

port Config

2P: 2 port
3P: 3 port

IGS Flow Control Valves VIM Series

Product Features

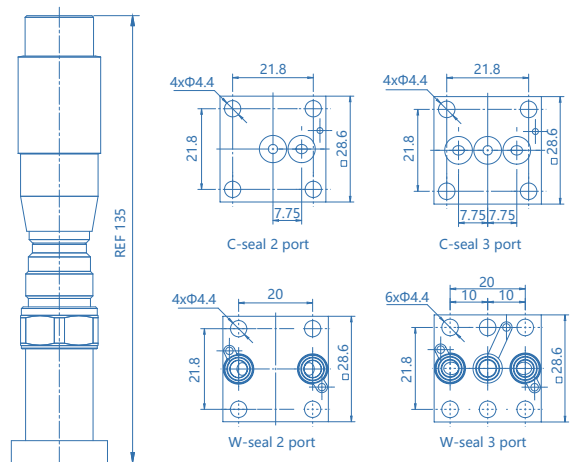
- W-seal and C-seal optional
- The wet surface is treated with EP, Max. 5µm. Ra.
- Material: 316L VIM-VAR
- 100% Helium-leak-tested



Technical Data

Max. Working Pressure:	150 psig
Max. Working Temp:	14°F~302°F(-10°C~150°C)
Nominal Diameter:	Φ1.0 (Φ2.5 optional)
Materials	
Body:	316L VIM-VAR
Sealing:	Elgiloy®
Leak rate: (to atmosphere)	1x10 ⁻⁹ mbar l/s He
(via seat)	Fixed at less than 1% of the Cv value
Flow Capacity:	Cv=0.03 (Φ1.0) Cv=0.065 (Φ2.5)

Dimensions (mm)



Ordering Information

VIM - A - 2P - C 11

Flow Capacity

A: Cv=0.065
B: Cv=0.03

port Config

2P: 2 port
3P: 3 port

Port Size

11: 1.125"
15: 1.5"

Port type

C: C-seal
W: W-seal

IGS Check Valves VICV1 Series

Product Features

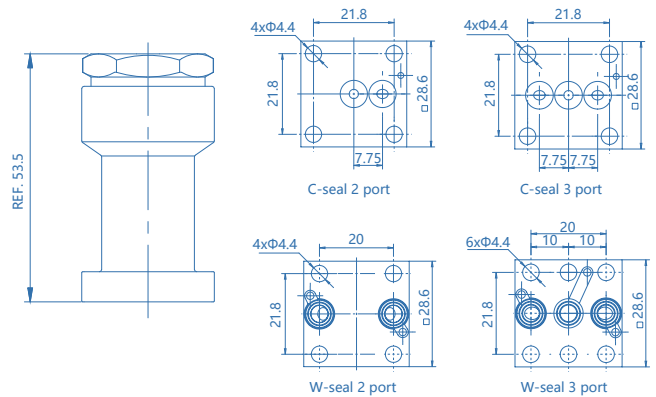
- W-seal and C-seal optional
- The wet surface is treated with EP, Max. 5µin. Ra.
- Material: 316L VIM-VAR
- 100% Helium-leak-tested



Technical Data

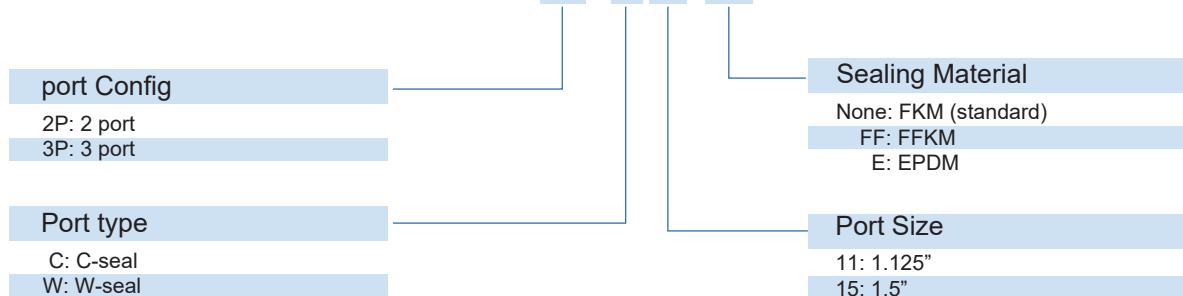
Max. Working Pressure:	150 psig
Max. Working Temp:	14°F~176°F(-10°C~80°C)
Surface Finish:	Max. 5µin. Ra
Cracking Pressure:	0.33 psig
Materials	
Body:	see ordering info
Leak Rate: (Internal)	1x10 ⁻⁹ mbar l/s He
(External)	1x10 ⁻⁹ mbar l/s He
Flow Capacity:	Cv=0.2

Dimensions (mm)



Ordering Information

VICV1 - 2P - C 11 - FF



IGS Modular Check Valves VIMCV Series

Product Features

- W-seal and C-seal optional
- Compact structure, stackable for use
- The wet surface is treated with EP, Max. 5µin. Ra.
- Material: 316L VIM-VAR
- 100% Helium-leak-tested

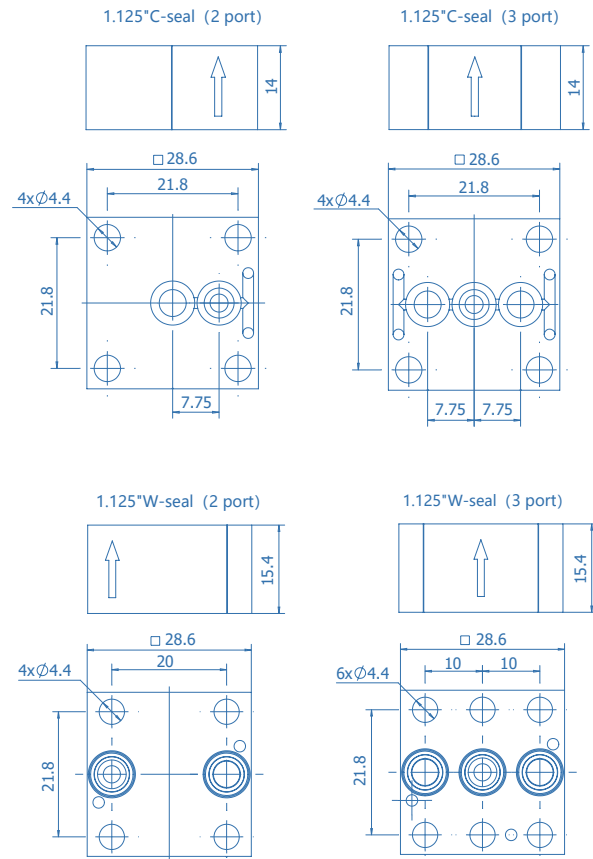


Technical Data

Max. Working Pressure:	150 psig
Max. Working Temp:	14°F~176°F(-10°C~80°C)
Surface Finish:	Max. 5µin. Ra
Cracking Pressure:	≤2 psig
reseating pressure:	≤5 psig (back pressure)
Materials	
Body:	316L VIM-VAR
Leak Rate: (Internal)	1x10 ⁻⁹ mbar l/s He
Flow Capacity:	Cv=0.2

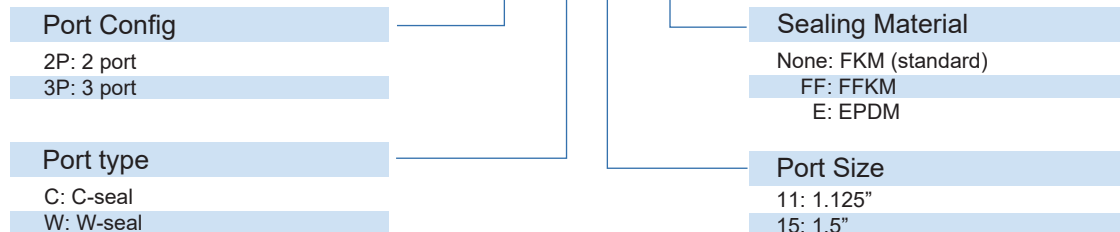
*When used for the first time or left unused for a long period, its initial cracking pressure may be higher than the set value. In principle, this check valve is only suitable for normal atmospheric environments and shall not be used in vacuum conditions.

Dimensions (mm)



Ordering Information

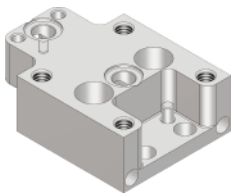
VIMCV - 3P - C 11- FF



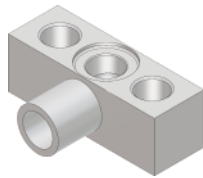
Substrates VIB Series (C-seal)

Product Features

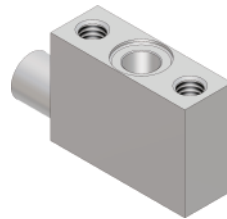
- C-seal
- Non-fixed installation to ensure the sealing effect
- The wet part is treated with EP
- The surface finish: Max. 5µin. Ra
- Material: 316L VIM-VAR



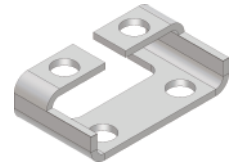
Substrate



Flange

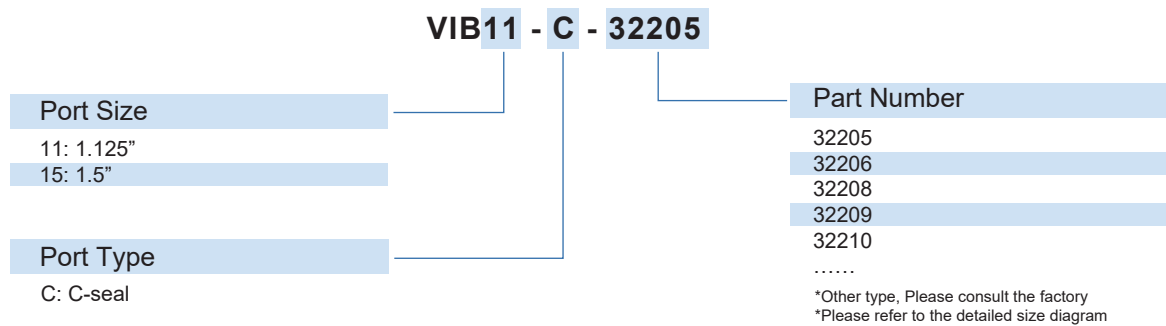


Manifolds



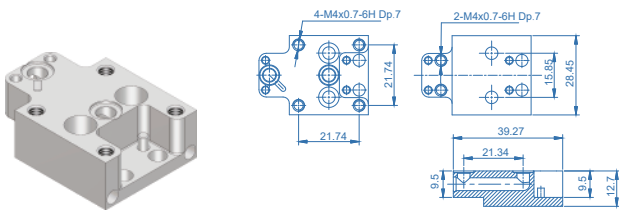
Bracket

Ordering Information

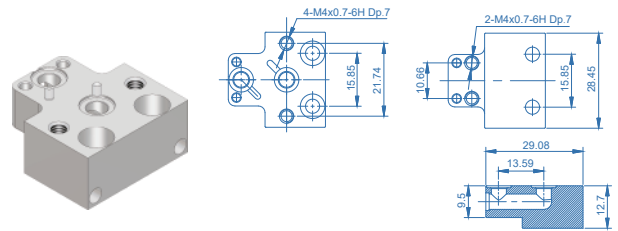


Substrates VIB Series (C-seal)

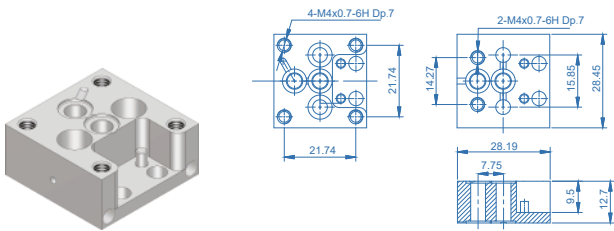
Dimensions (mm)



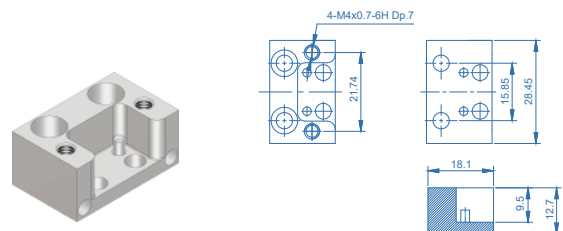
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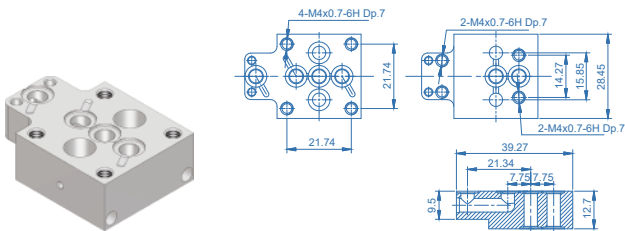
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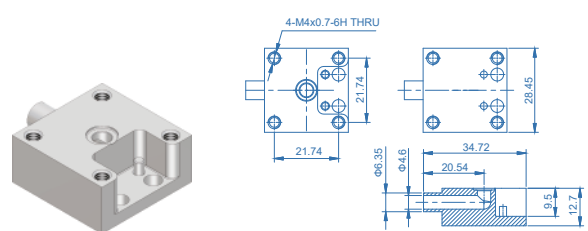
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32214



32208

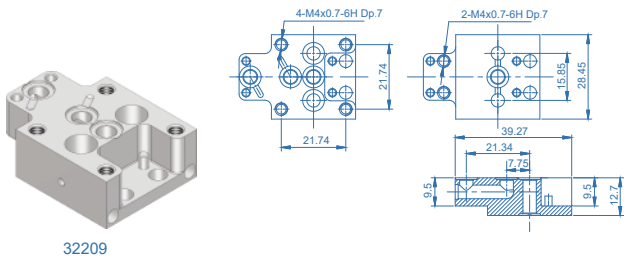


34476

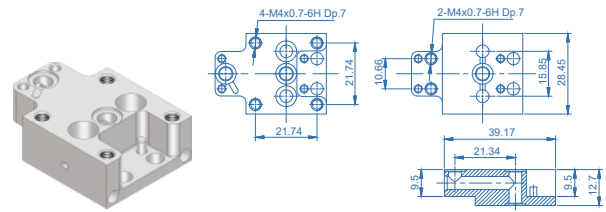
Substrates

Substrates VIB Series (C-seal)

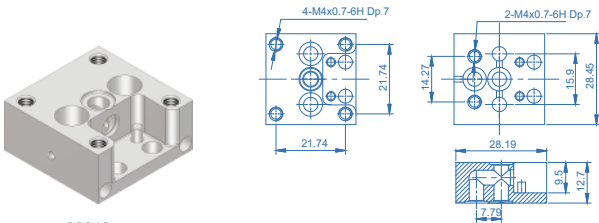
Dimensions (mm)



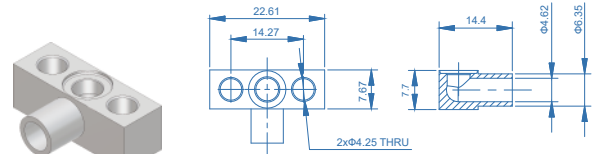
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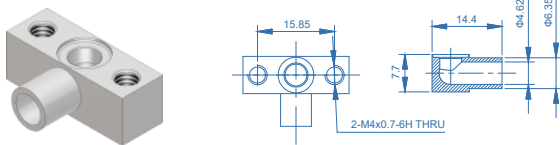
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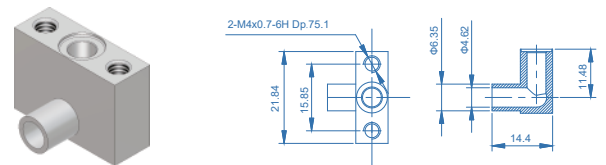
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32215



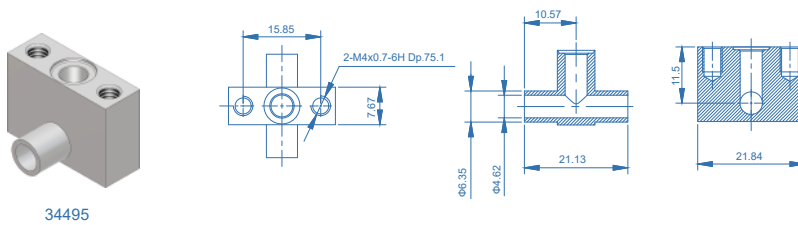
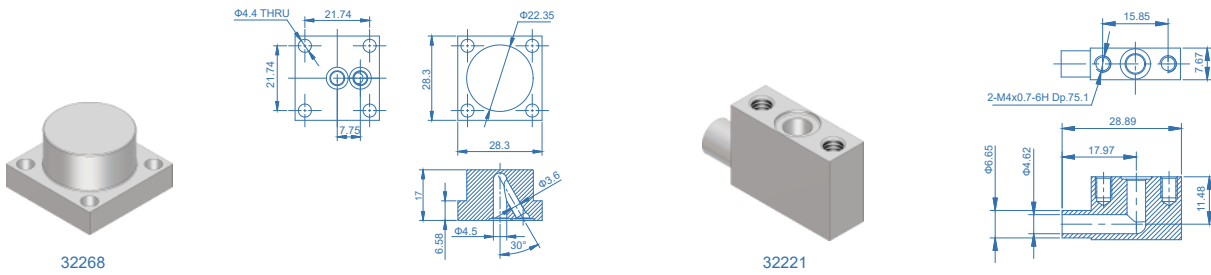
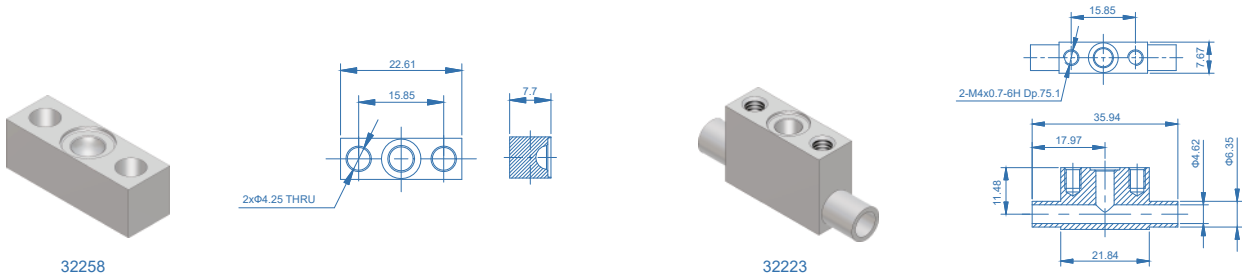
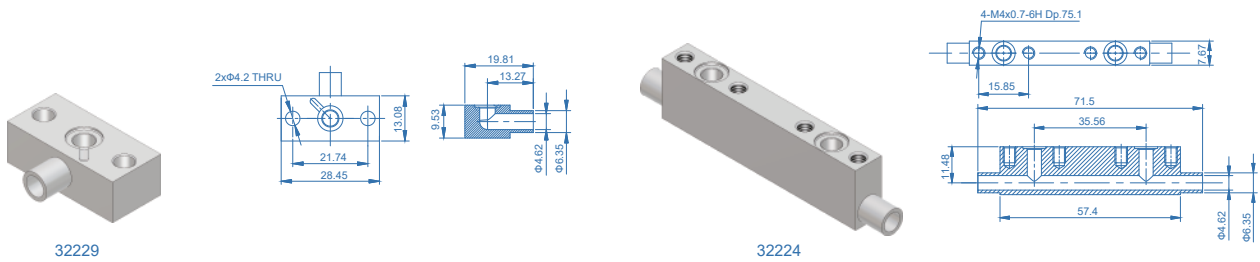
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32255

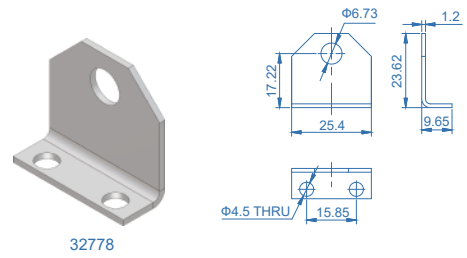
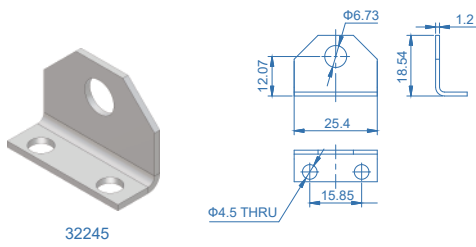
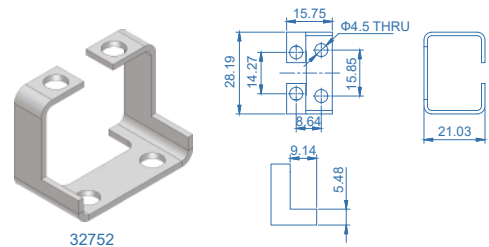
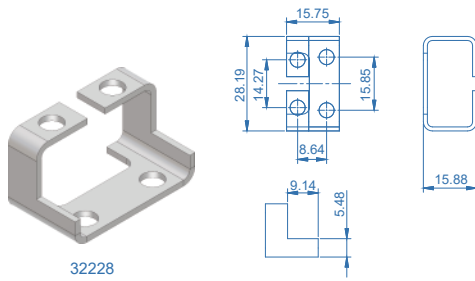
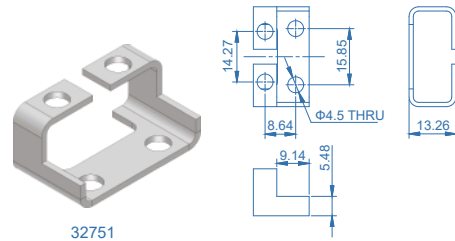
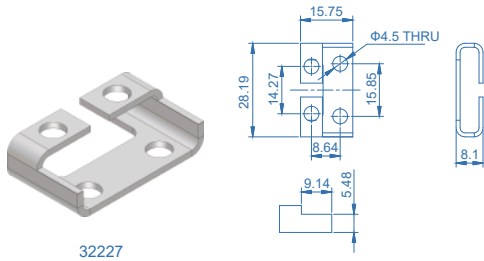
Bracket VIB Series (C-seal)

Dimensions (mm)



Bracket VIB Series (C-seal)

Dimensions (mm)

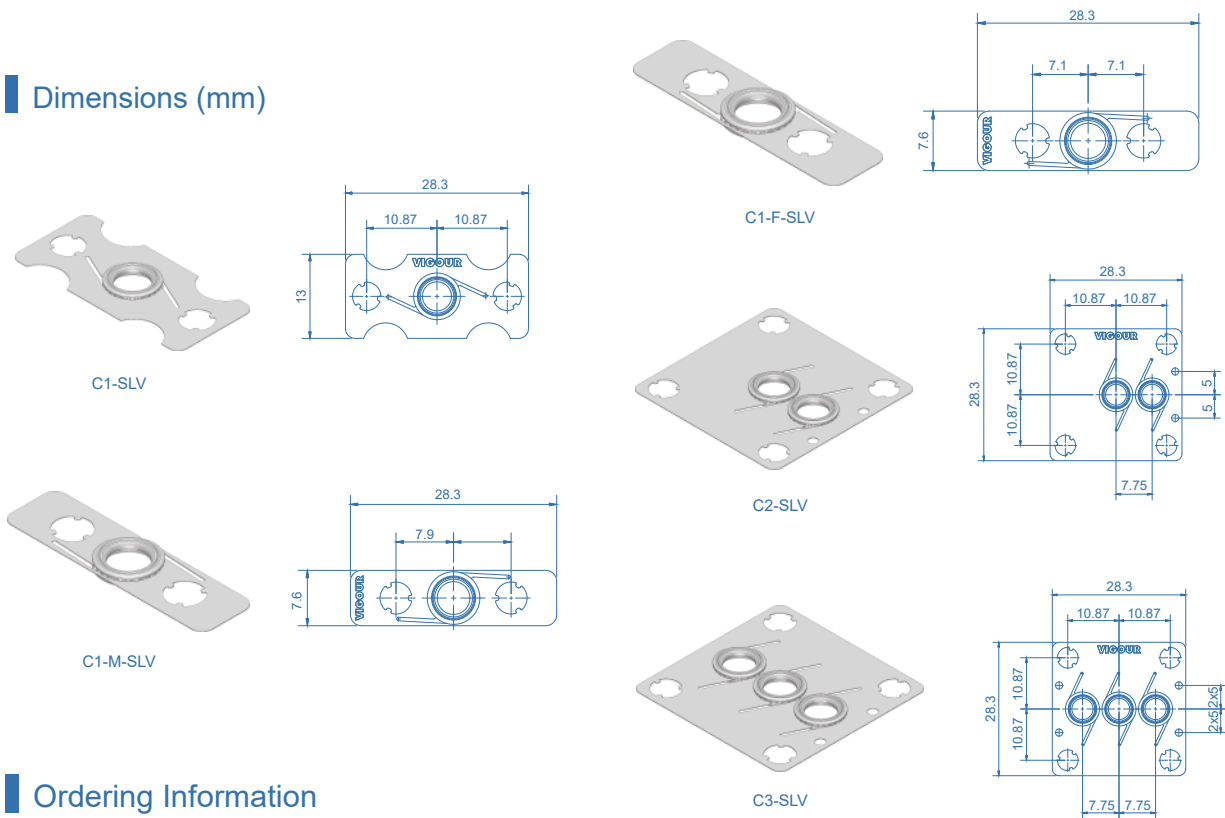


Gasket VIG Series (C-seal)

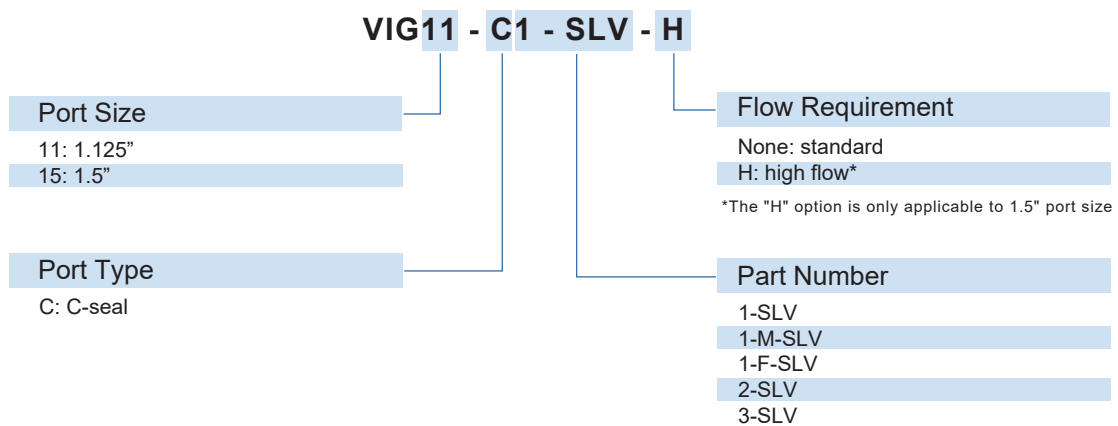
Product Features

- C-seal
- Sealing faces independent of components receiving external forces
- The surface finish: Max. 5µin. Ra
- Gasket material: 316L VIM-VAR
- Supporting part material: SS304

Dimensions (mm)



Ordering Information



Substrates VIB Series (W-seal)

Product Features

- W-seal
- Non-fixed installation to ensure the sealing effect
- The wet part is treated with EP
- The surface finish: Max. 5µin. Ra
- Material: 316L VIM-VAR



Standard Substrates



1-Path Bypass Substrates



Plugs



Transition Substrates



2-Path Bypass Substrates



End Substrates

订购参数

VIB11 - W - 02001

Port Size

11: 1.125"
15: 1.5"

Port Type

W: W-seal

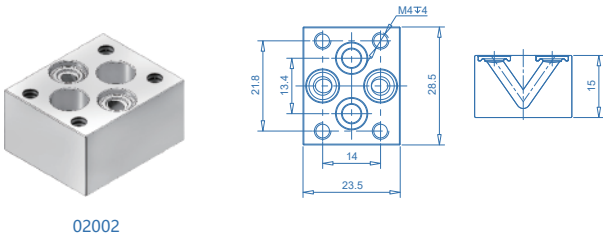
Part Number

02001
02002
02003
01001
04001
.....

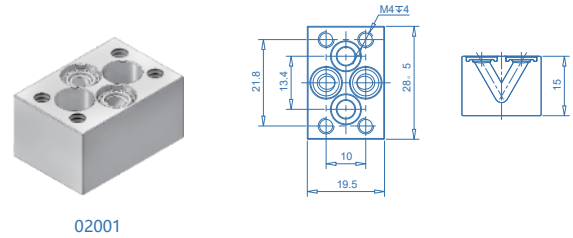
*Other type, Please consult the factory
*Please refer to the detailed size diagram

Substrates VIB Series (W-seal)

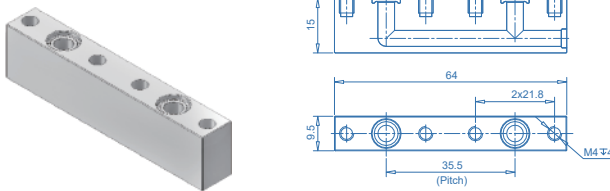
Dimensions (mm)



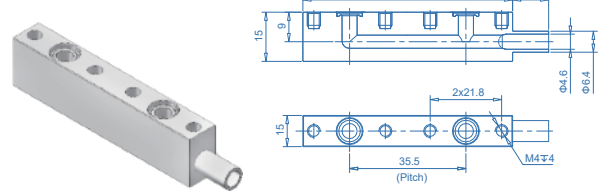
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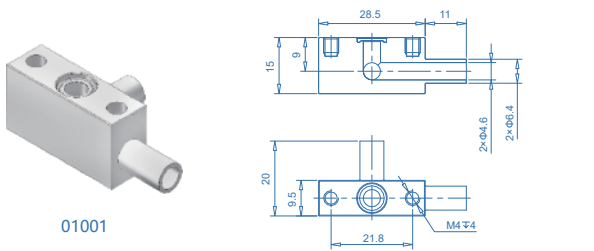
02001



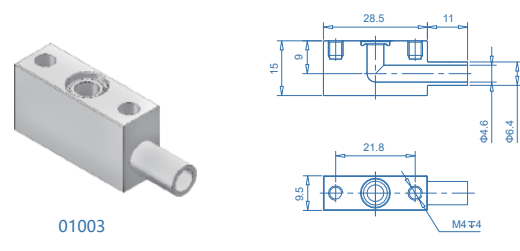
Pitch 35.5mm: 02003
Pitch 30mm: 02004



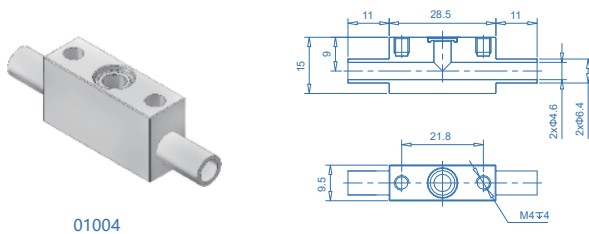
Pitch 35.5mm: 02005
Pitch 30mm: 02006



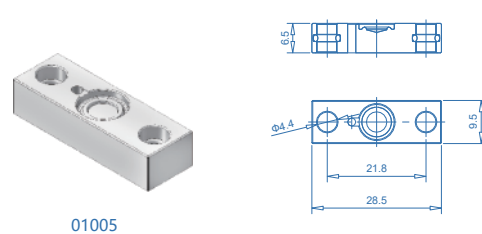
01001



01003



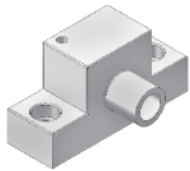
01004



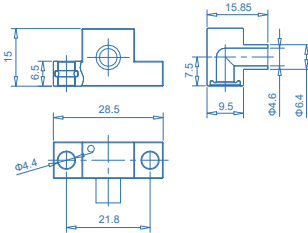
01005

Substrates VIB Series (W-seal)

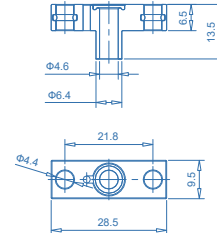
Dimensions (mm)



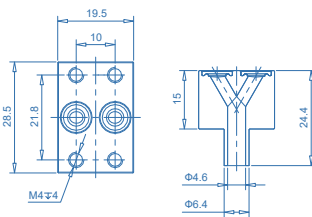
01006



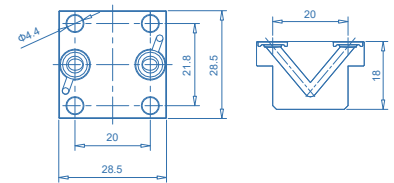
01007



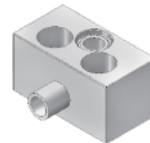
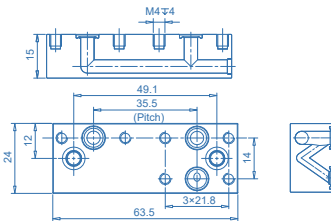
02010



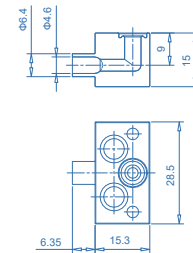
02011



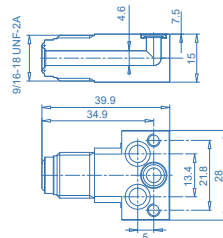
Pitch 35.5mm: 03001
Pitch 30mm: 03002



01008



01009



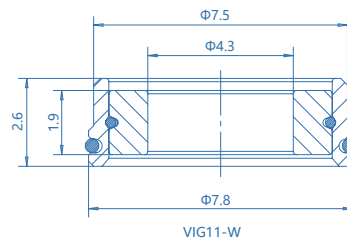
Gasket VIG Series (W-seal)

Product Features

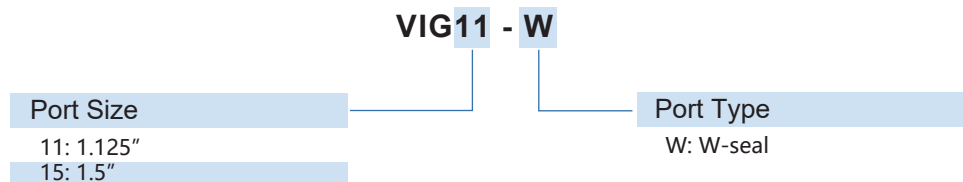
- W-seal
- Sealing faces independent of components receiving external forces
- The surface finish: Max. 5µin. Ra
- Gasket material: 316L VIM-VAR
- Supporting part material: SS304



Dimensions (mm)



Ordering Information



VIGOUR

We offer solutions regarding your ideas!

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Phone: (86) 021-6760 0902

E-mail: info@vigourco.com



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