

VIGOUR

We offer solutions regarding your ideas!

INTEGRATED GAS SYSTEM

Gas
Control
Solutions

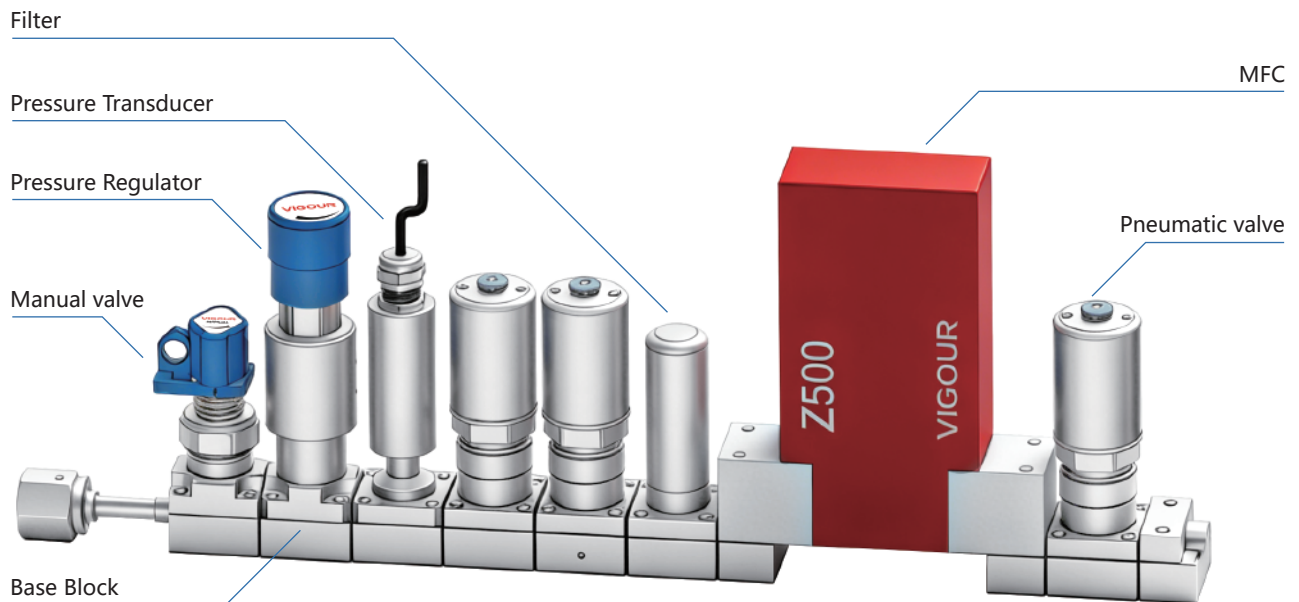


VIGS
VHPS
VUPS
VGDS

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 EP / 316L VIM-VAR

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IGS Diaphragm Valves VID Series

Product Features

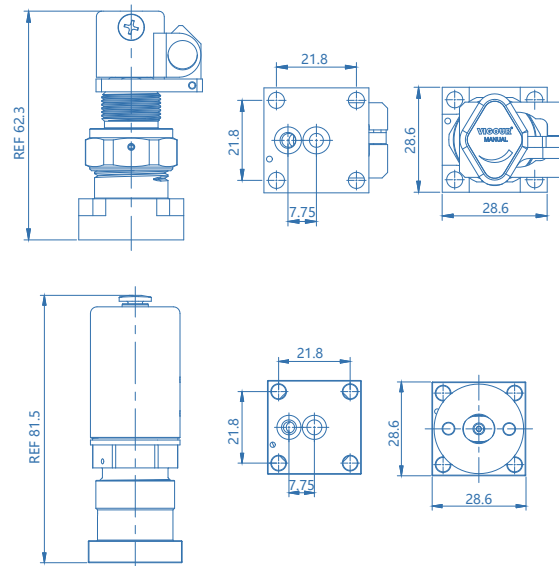
- C-seal
- No dead end design
- The wet surface is treated with EP, Max. 5µin. Ra.
- Material: 316L VIM-VAR
- 100% Helium-leak-tested



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:	see ordering info
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
PO: pneumatic actuator, normally opened
PC: pneumatic actuator, normally closed

port Config

2P: 2 port
3P: 3 port

Valve Seat Option

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

Port Size

11: 1.125"
15: 1.5"

Port type

C: C-seal

IGS Flow Control Valves VIM Series

Product Features

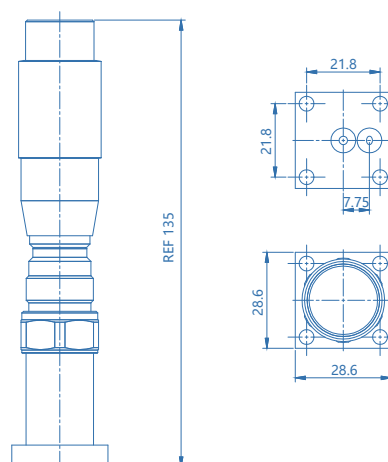
- C-seal
- The wet surface is treated with EP, Max. 5µin. Ra.
- Material: 316L VIM-VAR
- 100% Helium-leak-tested



Technical Data

Max. Working Pressure:	150 psig
Max. Working Temp:	14°F~302°F(-10°C~150°C)
Nominal Diameter:	Φ1.0
Materials	
Body:	see ordering info
Sealing:	FKM
Flow Capacity:	Cv=0.03

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

IGS Check Valves VICV Series

Product Features

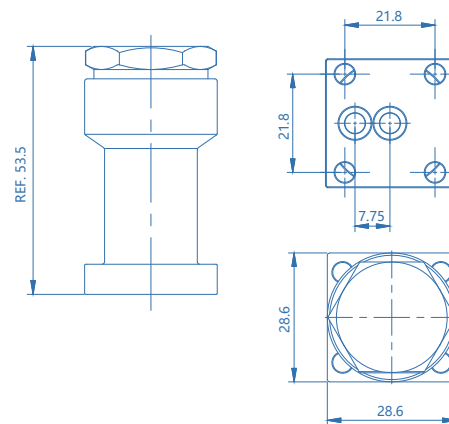
- C-seal
- The wet surface is treated with EP, Max. 5µin. Ra.
- Material: 316L VIM-VAR
- 100% Helium-leak-tested



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

VICV - D - 2P - C 11 - U - FF

Seal Type

D: Diaphragm type
S: Spring type

port Config

2P: 2 port
3P: 3 port

Port type

C: C-seal

O-ring Option

None: FKM (standard)
FF: FFKM

Intake Direction

None: downward ↓
U: Upward ↑

Port Size

11: 1.125"
15: 1.5"

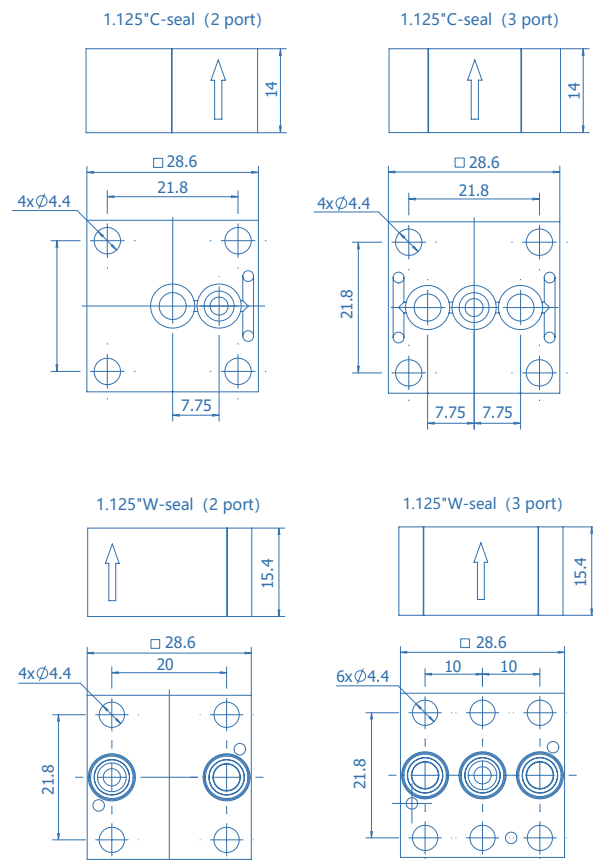
IGS Modular Check Valves VIMCV Series

Product Features

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



Dimensions (mm)



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.

Ordering Information

VIMCV SLV - 3P - C 11- FF

Material

SLV: 316L VIM-VAR

Port Config

2P: 2 port
3P: 3 port

Port type

C: C-seal
W: W-seal

Sealing Material

None: FKM (standard)
FF: FFKM
E: EPDM

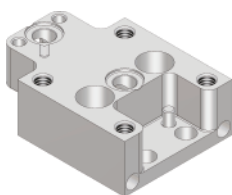
Port Size

11: 1.125"

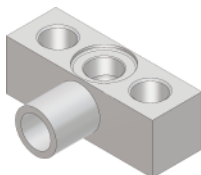
Substrates VIB Series (C-seal)

Product Features

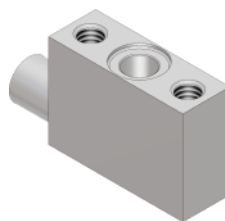
- C-seal
- Non-fixed installation to ensure the sealing effect
- The wet part is treated with EP
- The surface finish: Max. 5µin. Ra
- Material: 316L VIM-VAR



Substrate



Flange



Manifolds



Bracket

Ordering Information

VIB11 - C - 32205

Port Size

11: 1.125"

15: 1.5"

Port Type

C: C-seal

Part Number

32205

32206

32208

32209

32210

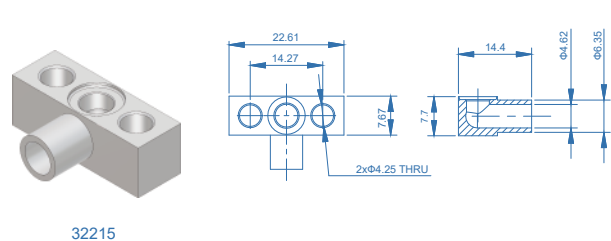
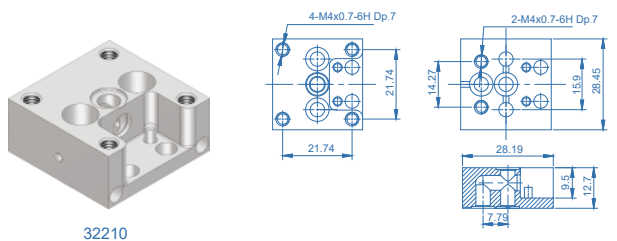
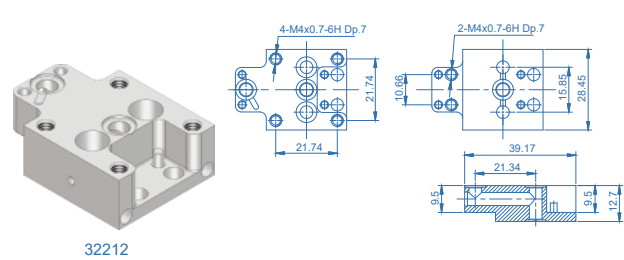
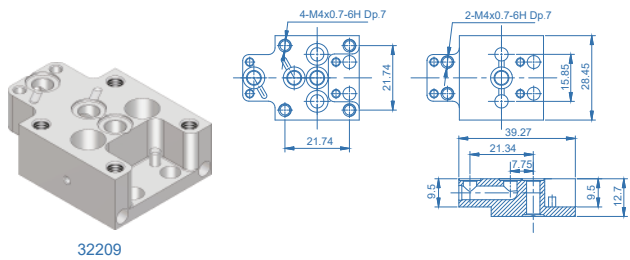
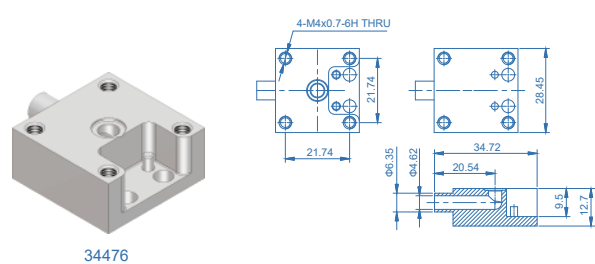
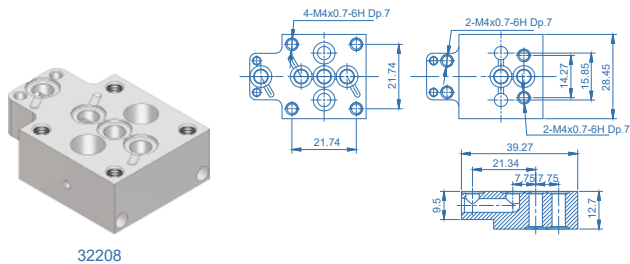
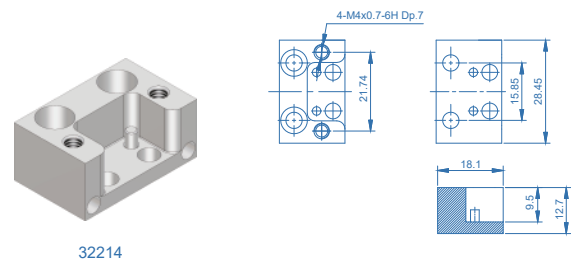
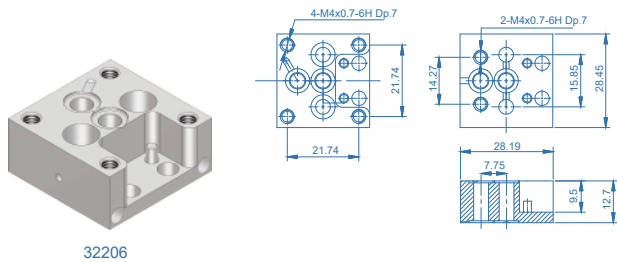
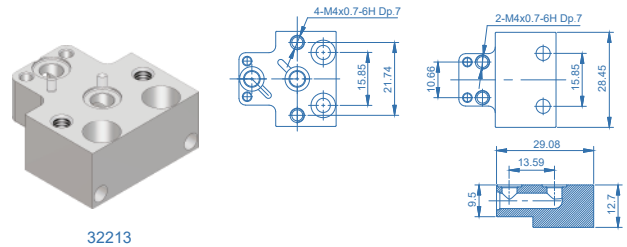
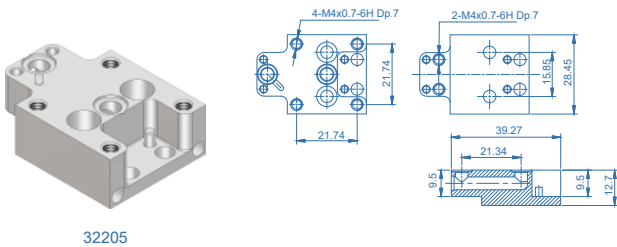
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*Other type, Please consult the factory

*Please refer to the detailed size diagram

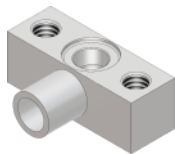
Substrates VIB Series

Dimensions (mm)

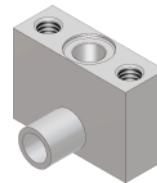
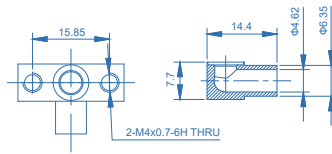


Substrates VIB Series

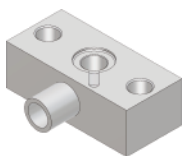
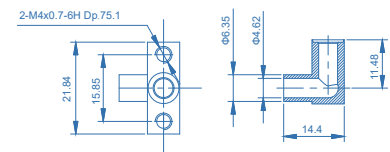
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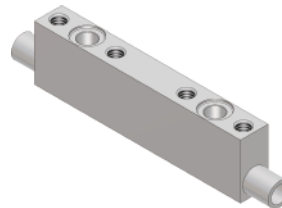
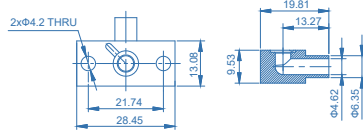
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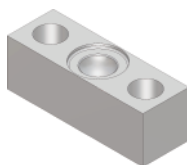
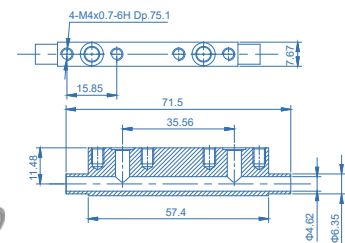
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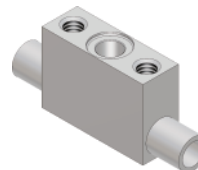
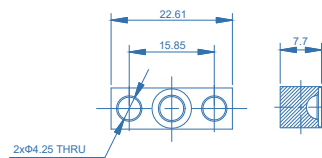
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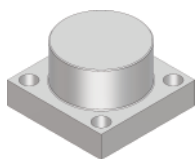
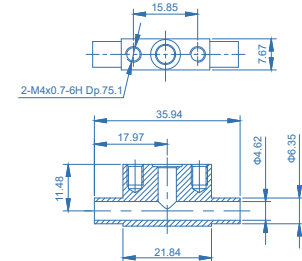
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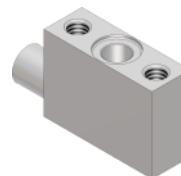
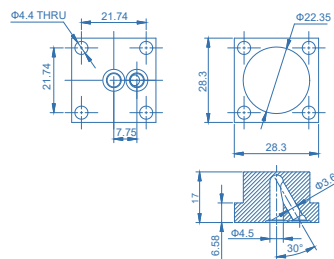
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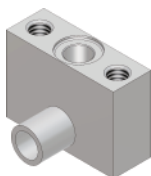
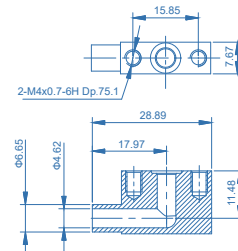
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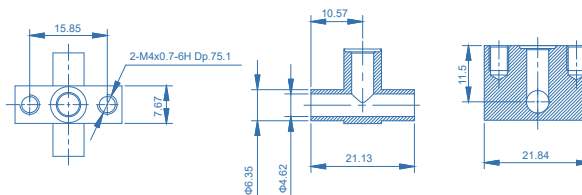
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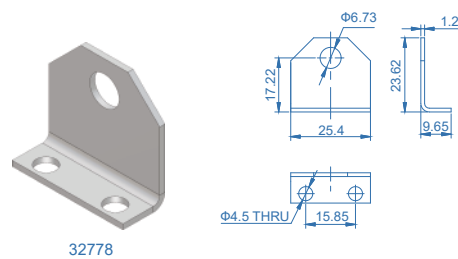
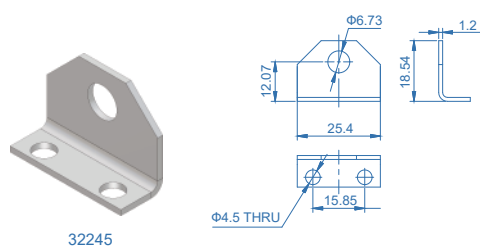
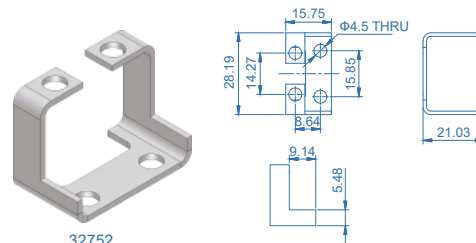
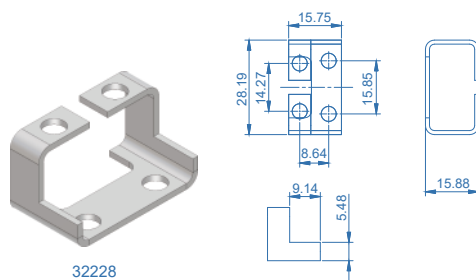
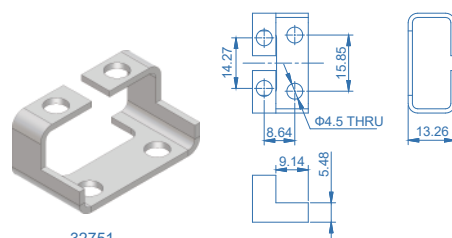
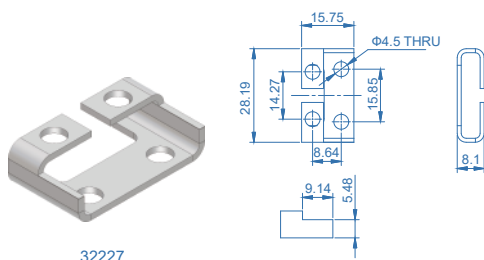


34495



Bracket VIB Series

Dimensions (mm)



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



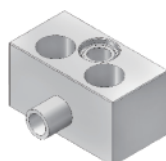
Plugs



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

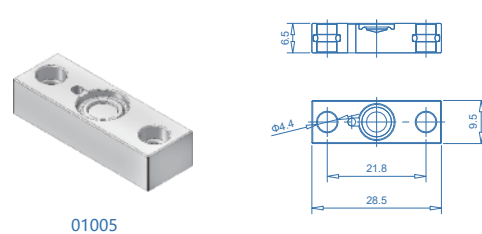
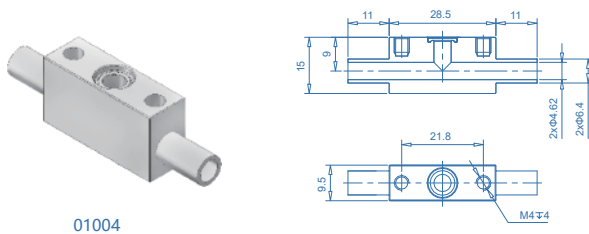
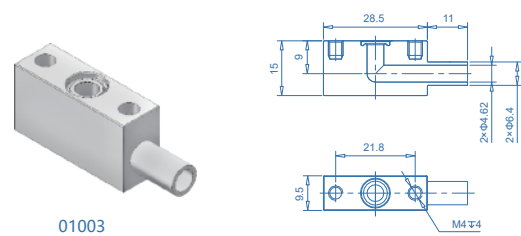
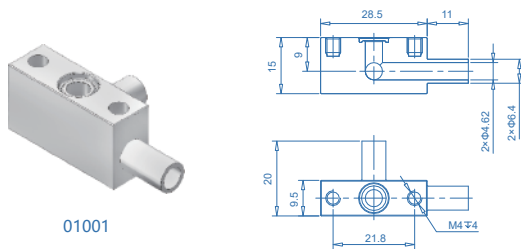
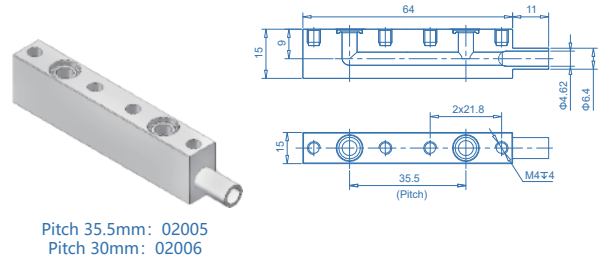
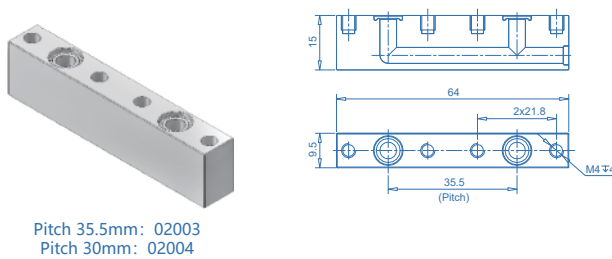
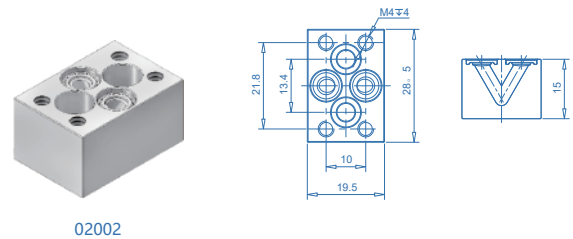
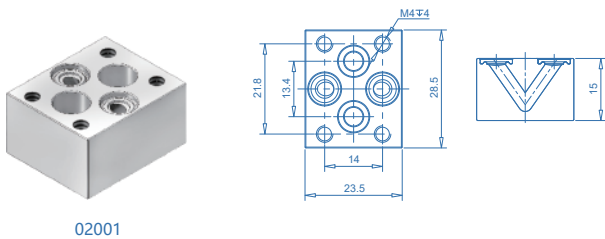
Part Number

02001
02002
02003
01001
04001
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*Other type, Please consult the factory
*Please refer to the detailed size diagram

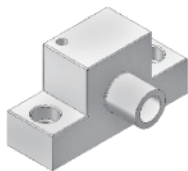
Substrates VIB Series (W-seal)

Dimensions (mm)

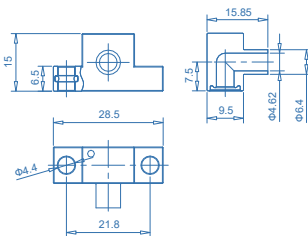


Substrates VIB Series (W-seal)

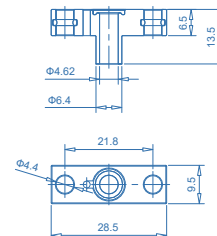
Dimensions (mm)



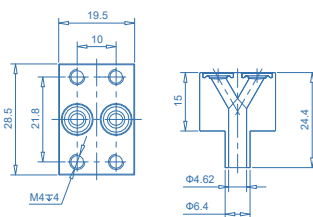
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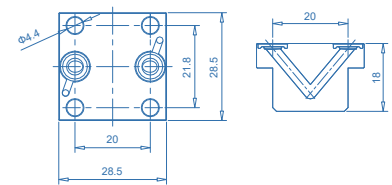
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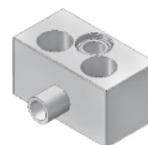
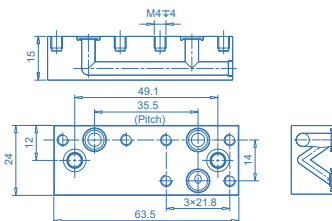
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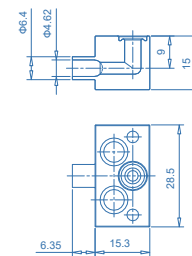
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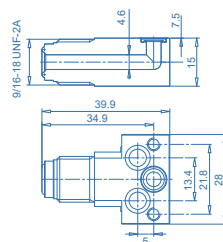
Pitch 35.5mm: 03001
Pitch 30mm: 03002



01008



01009

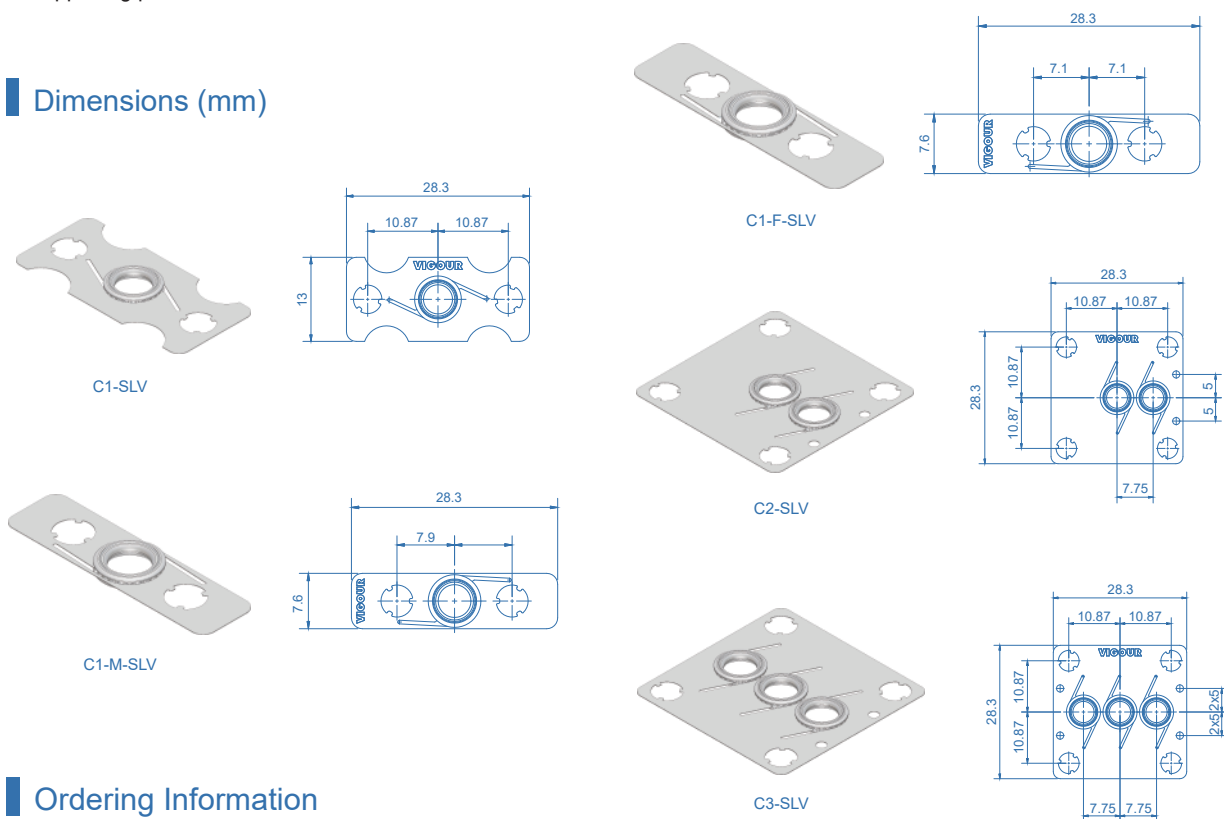


Gasket VIG Series

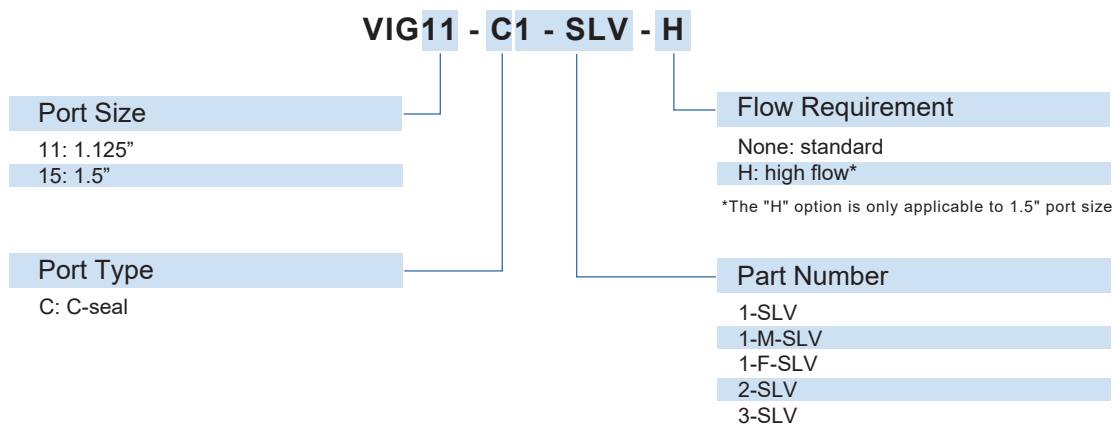
Product Features

- 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



VIGOUR

We offer solutions regarding your ideas!

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Songjiang District, Shanghai China.

Phone: (86) 021-6760 0902

E-mail: info@vigourco.com



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