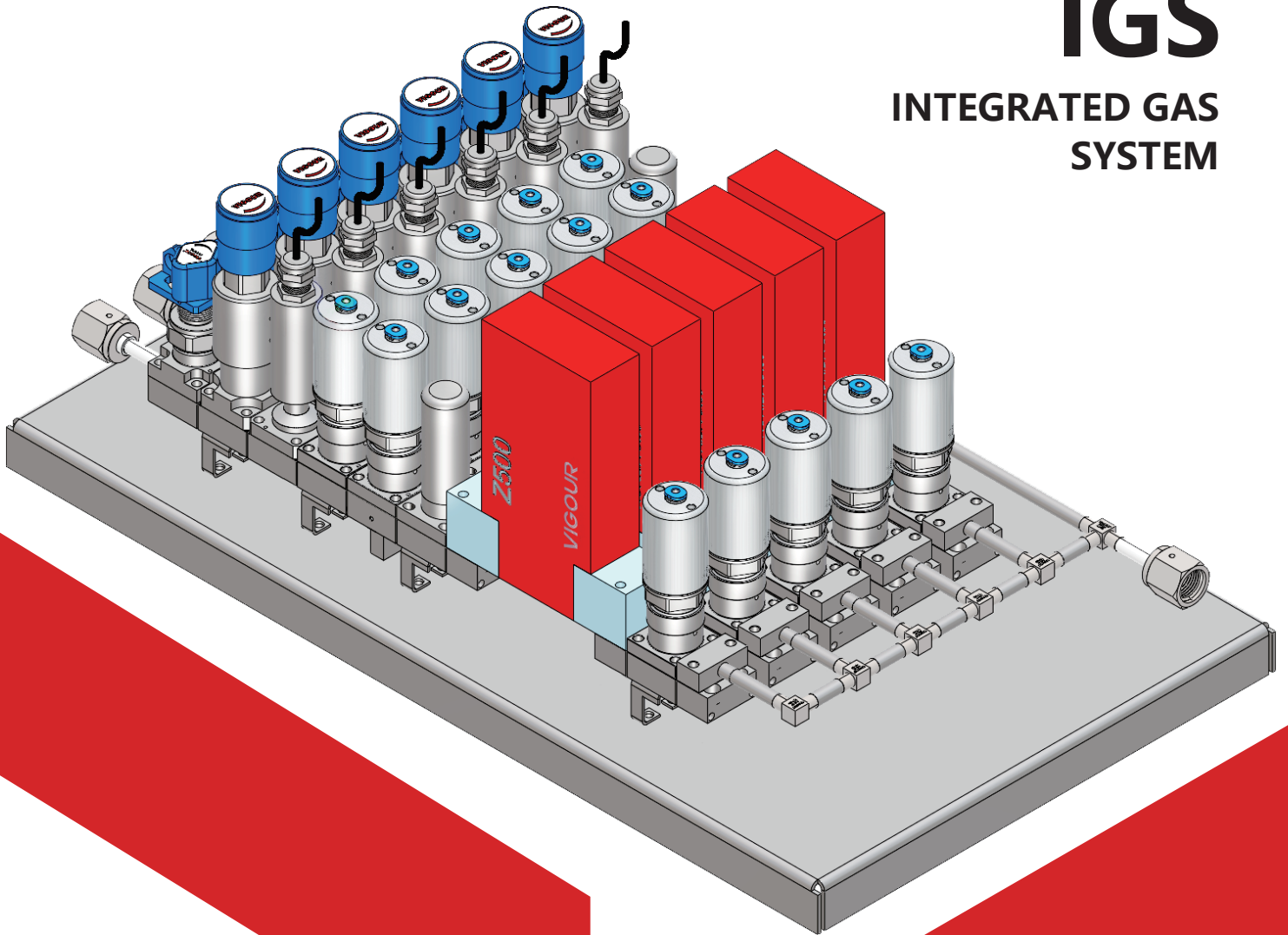


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IGS

INTEGRATED GAS
SYSTEM



SAFETY / ACCURACY / CLEANLINESS

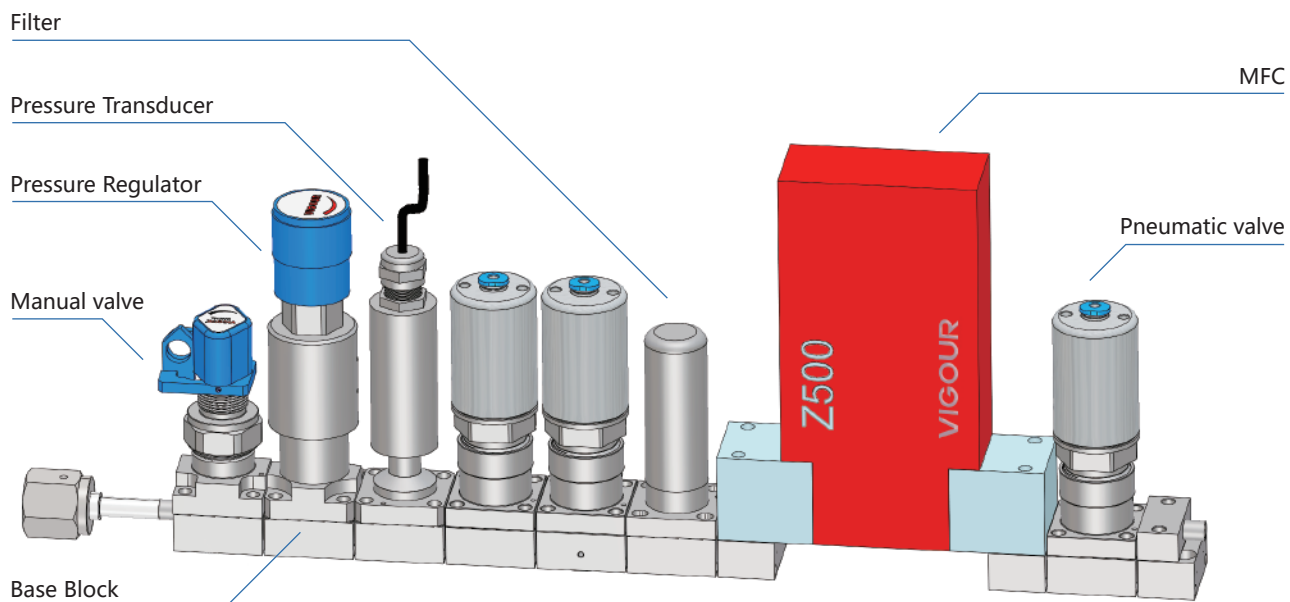
www.vigourco.com

Integrated Gas Systems

IGS Series

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



Technical Data

Process Specification	Ultra High Purity
Surface Finish:	Max. 5 $\mu\text{in. Ra}$
body:	316L EP / 316L VIM-VAR

IGS Pressure Regulators VIR Series

Product Features

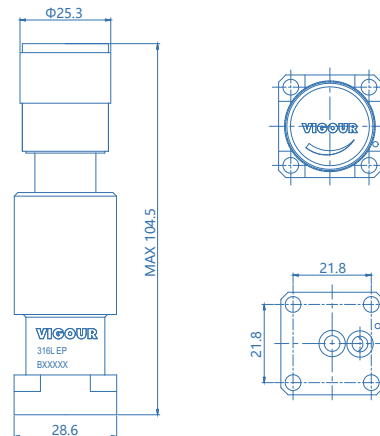
- Metal-to-metal seal to atmosphere
- W-seal and C-seal optional
- The surface finish: Max. 5µin. Ra
- 100% Helium-leak-tested

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:	see ordering info
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=0.08



Dimensions (mm)



Ordering Information

VIRS - 10 - 2 - 2P - C 11 - VS

Materials

S: 316L EP
SLV: 316L VIM-VAR

Inlet Pressure

10: to 150 psig

Outlet Pressure

2: to 30 psig
4: to 60 psig
7: to 100 psig

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

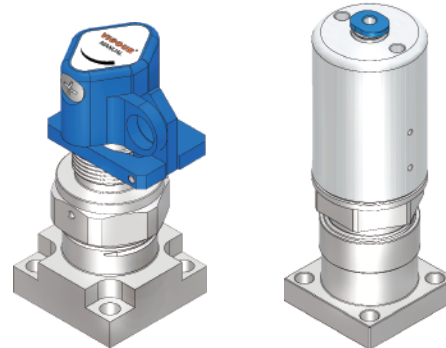
C: C-seal

IGS Diaphragm Valves

VID Series

Product Features

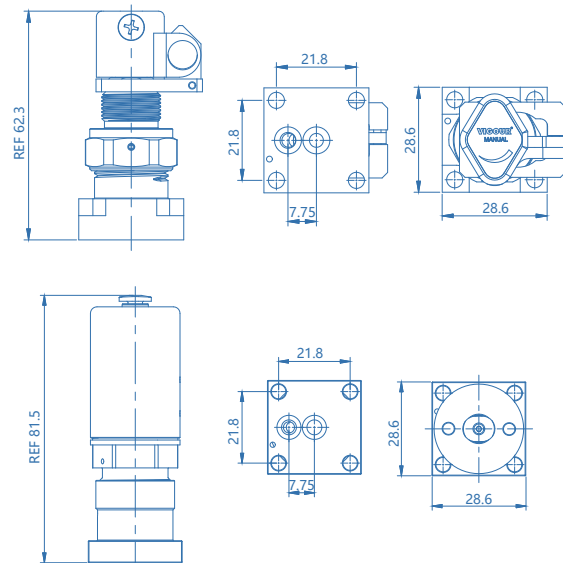
- W-seal and C-seal optional
- No dead end design
- The wet surface is treated with EP, Max. 5µin. Ra.
- 100% Helium-leak-tested



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=0.27

Dimensions (mm)



Ordering Information

VIDS - M - 2P - C 11 - VS

Materials

S: 316L EP
SLV: 316L VIM-VAR

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

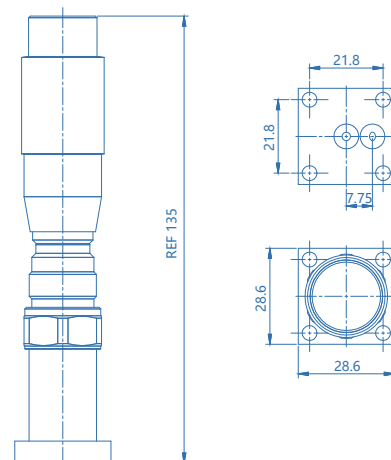
- W-seal and C-seal optional
- The wet surface is treated with EP, Max. 5µin. Ra.
- 100% Helium-leak-tested



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

VIMS - A - 2P - C 11

Materials

S: 316L EP
SLV: 316L VIM-VAR

Flow Capacity

A: Cv=0.065
B: Cv=0.03

Port Size

11: 1.125"
15: 1.5"

Port type

W: W-seal
C: C-seal

port Config

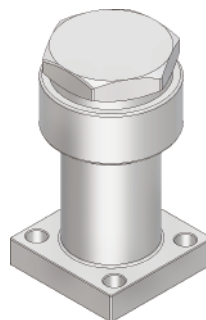
2P: 2 port
3P: 3 port

IGS Check Valves

VICV Series

Product Features

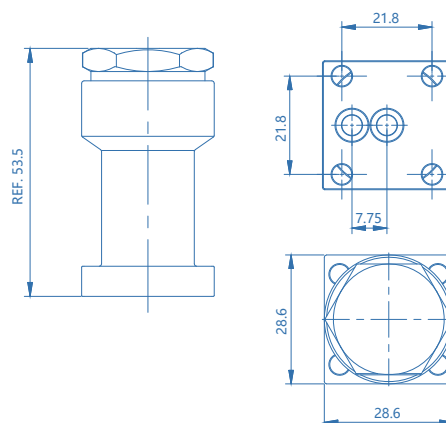
- W-seal and C-seal optional
- The wet surface is treated with EP, Max. 5µin. Ra.
- 100% Helium-leak-tested



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

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

Materials

S: 316L EP
SLV: 316L VIM-VAR

Seal Type

D: Diaphragm type
S: Spring type

port Config

2P: 2 port
3P: 3 port

O-ring Option

None: FKM (standard)
FF: FFKM

Intake Direction

None: downward ↓
U: Upward ↑

Port Size

11: 1.125"
15: 1.5"

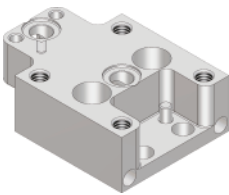
Port type

W: W-seal
C: C-seal

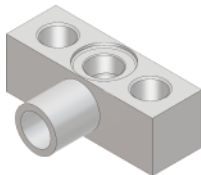
Substrates VIB Series

Product Features

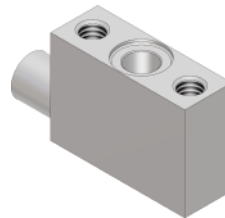
- W-seal and C-seal optional
- Non-fixed installation to ensure the sealing effect
- The wet part is treated with EP
- The surface finish: Max. 5µin. Ra



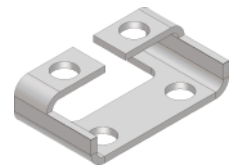
SUBSTRATE



FLANGE



MANIFOLDS



BRACKET

Ordering Information

VIB11 - C2 - 32205 - SLV

Port Size

11: 1.125"
15: 1.5"

Port Type

W: W-seal
C: C-seal

Body Port

0: none port
1: 1 port
2: 2 port
3: 3 port
4: 4 port
6: 6 port

Materials

S: 316L EP
SLV: 316L VIM-VAR

Part Number

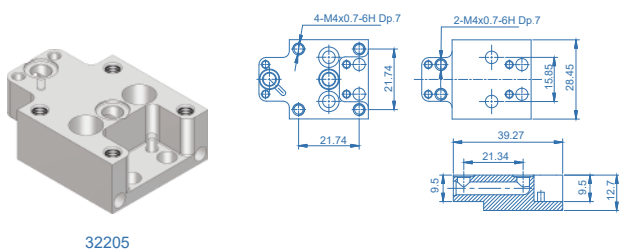
32205
32206
32208
32209
32210
.....

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

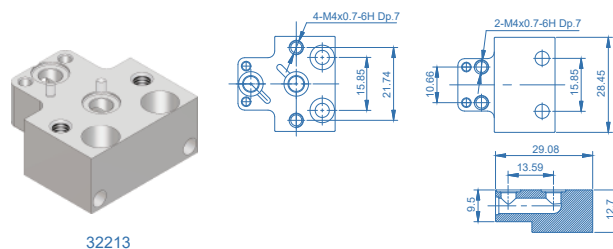
Substrates

VIB Series

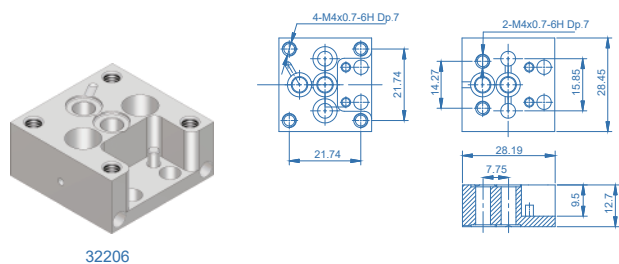
Dimensions (mm)



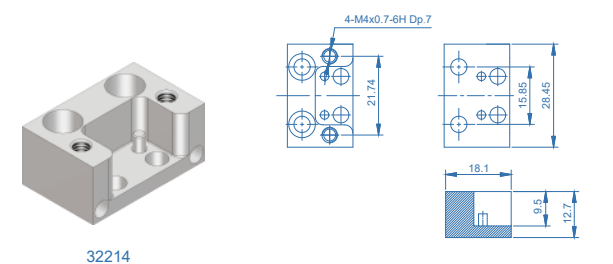
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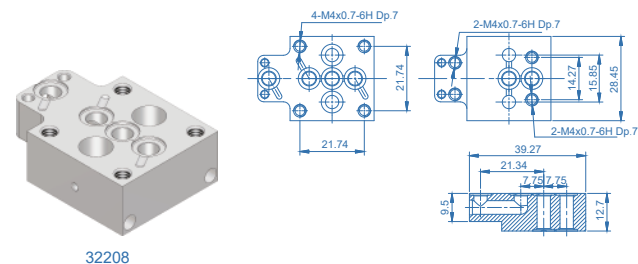
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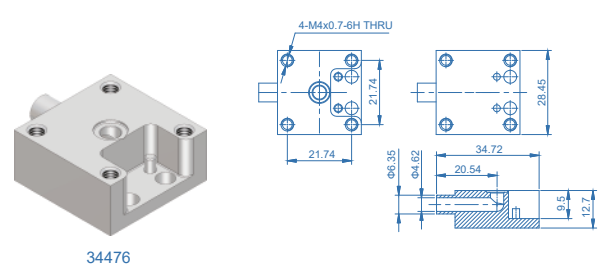
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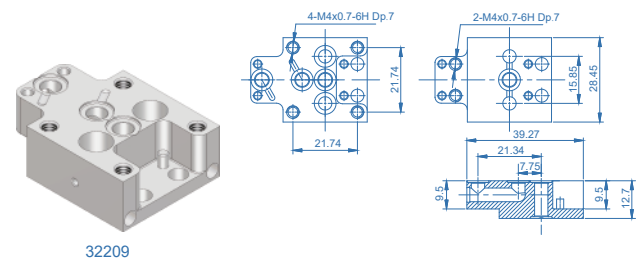
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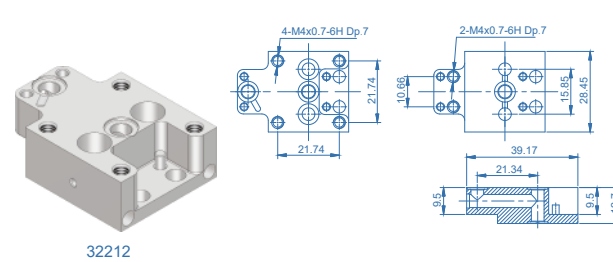
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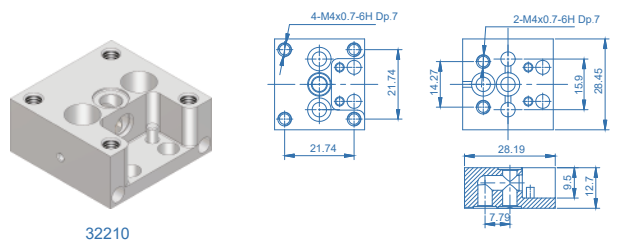
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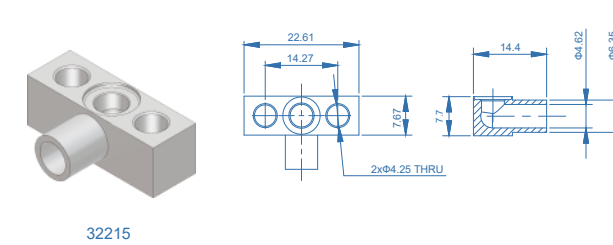
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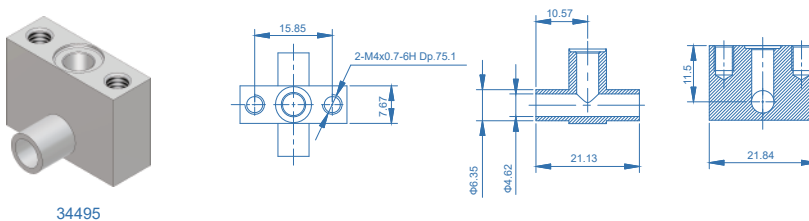
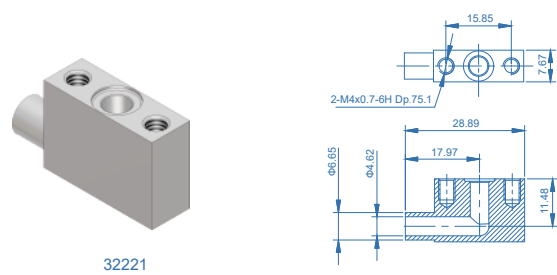
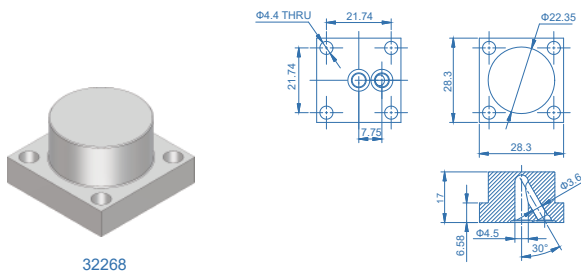
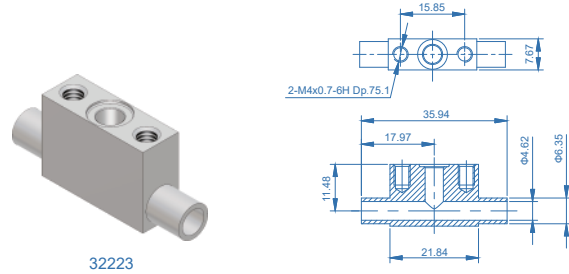
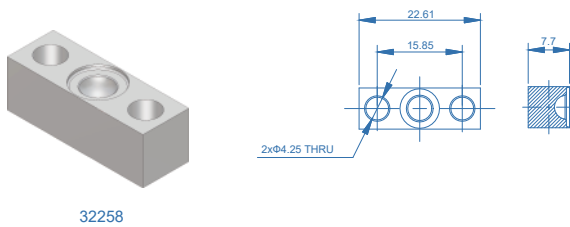
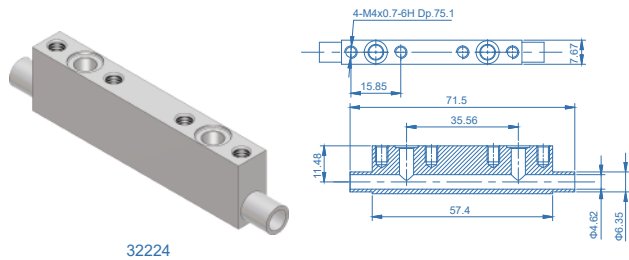
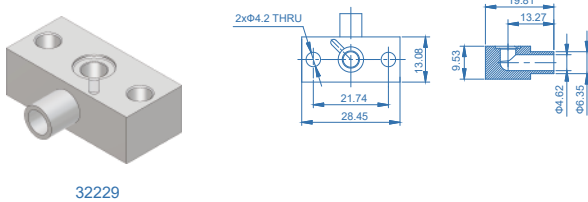
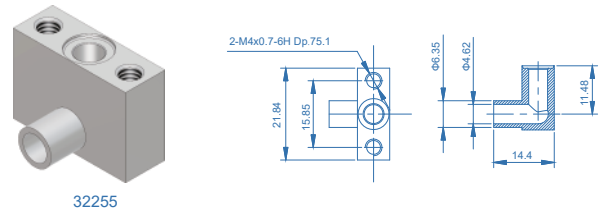
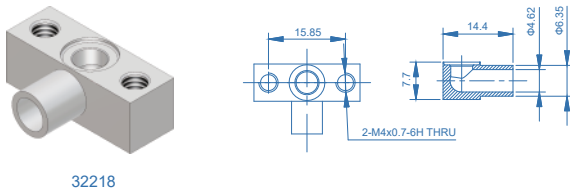
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32215

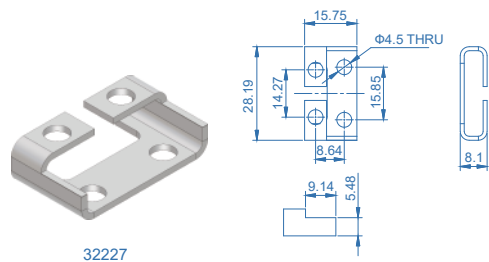
Substrates VIB Series

Dimensions (mm)

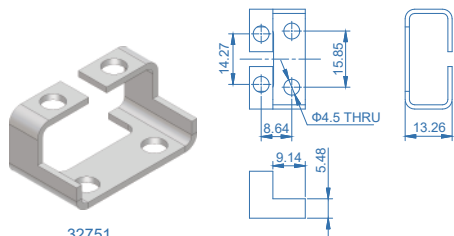


Substrates
VIB Series

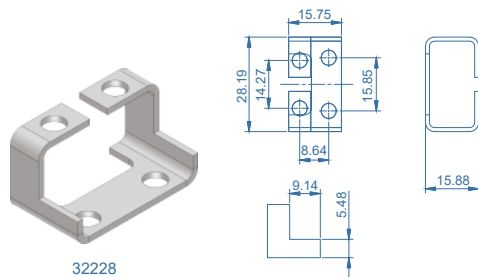
■ Dimensions (mm)



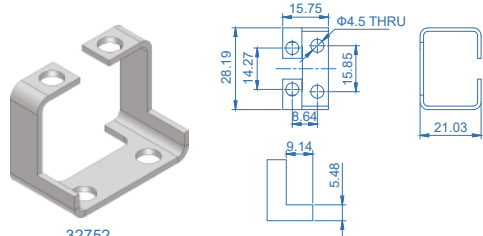
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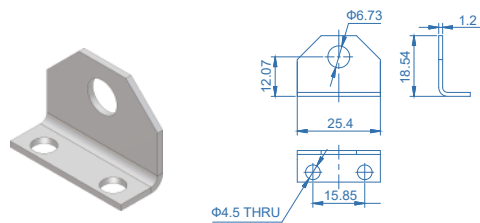
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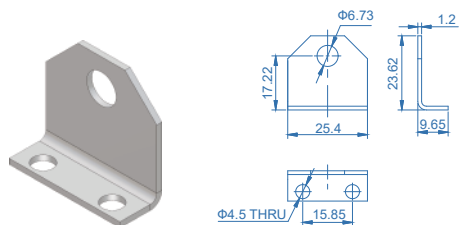
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32752



32245



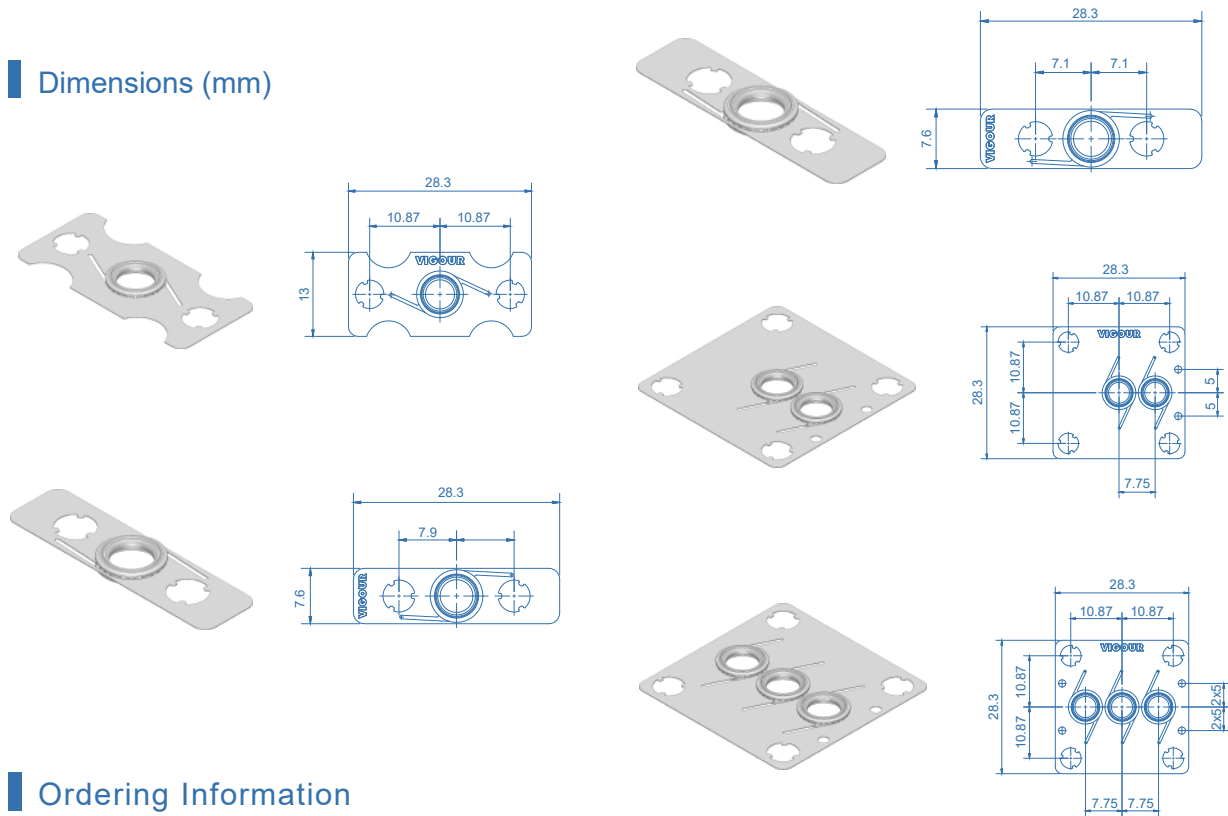
32778

Gasket VIG Series

Product Features

- W-seal and C-seal optional
- Sealing faces independent of components receiving external forces
- The surface finish: Max. 5µin. Ra

Dimensions (mm)



Ordering Information

VIG11 - C2 - H - SLV

Port Size

11: 1.125"
15: 1.5"

Port Type

W: W-seal
C: C-seal

Number of Holes

1: 1 port
2: 2 port
3: 3 port*

*only for C-seal

Materials

S: 316L EP
SLV: 316L VIM-VAR

Flow Requirement

None: standard
H: high flow

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Add: Floor 2, Building 26, Lane 5355, Beisong Road,
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