Integrated Gas Systems

Contents

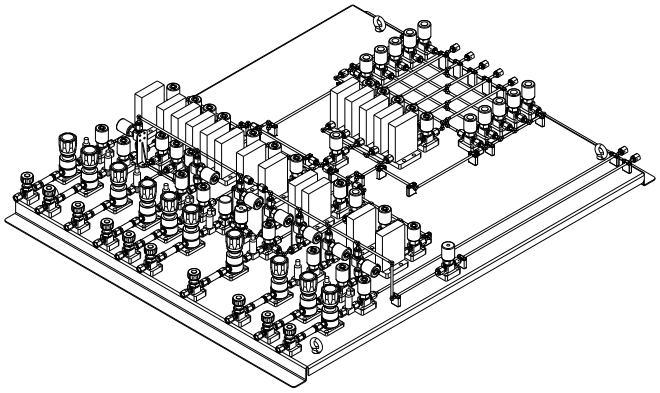
Features

FITOK Integrated Gas System is used to control gas in the semiconductor industry, integrating valves, fittings, and other piping components, as well as other necessary measuring and control instruments. FITOK Integrated Gas System uses SEMI compliant surface-mounted components and is modularly designed. While reducing the size of the device, installation and maintenance become easier.

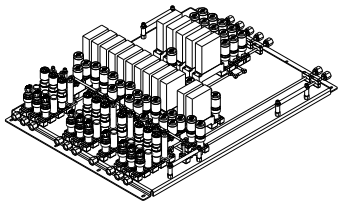
Miniaturization

The size is about 1/3 the traditional panel, and the corresponding flow path size is also reduced for better contamination control.

Traditional Panel

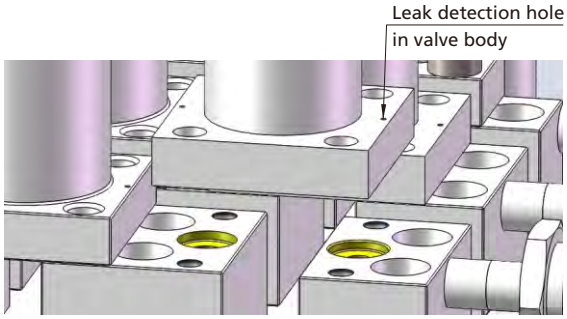


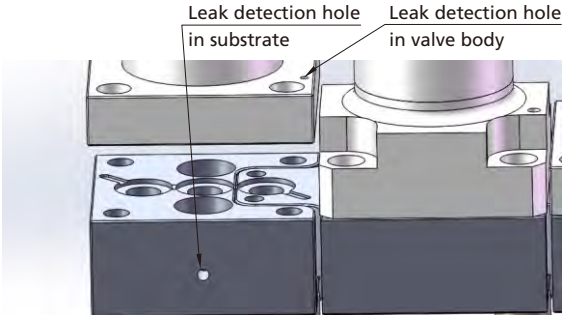
IGS Panel



Leak Detection Hole

Every sealing face has a leak detection hole.





Silver-Plated Bolts

IGS uses silver-plated bolts to prevent galling.
Silver-plated bolts can be ordered individually. Part number:
BL-M4×10 (10 mm long)
BL-M4×30 (30 mm long)
For other sizes, please contact FITOK Group.

Bolts with Falling Prevention Design

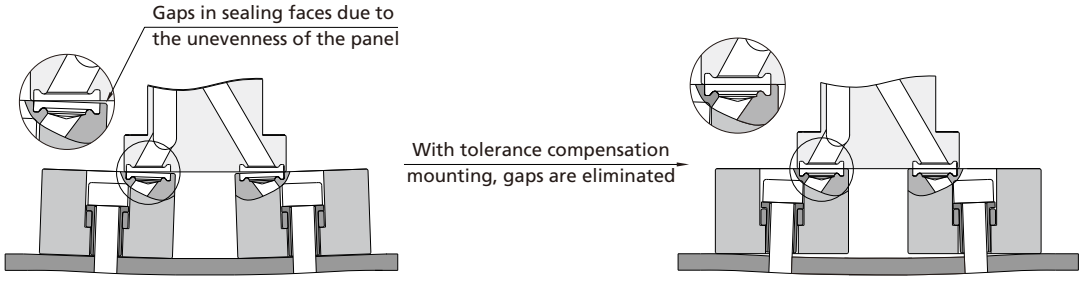
Silver-plated bolt is gripped by the valve and will not fall even when the valve is upside down during installation and maintenance.

Tolerance Compensation Structure (W-Seal Only)

W-seal substrates are designed with a tolerance compensation construction, allowing for less assembly tolerance and ensuring the system sealing performance to the greatest extent.

The substrate is locked to the panel through the bolt pressing the sleeve, while the substrate is variable.

1. Horizontally variable: Used to compensate for the machining tolerances in panel threaded holes to ensure that substrates are mounted in a straight line.
2. Vertically variable: Used to compensate for dimensional tolerances of panels and substrates to ensure sealing performance.



W/C-Seal

W-seal and C-seal are functionally the same but differ in size due to different SEMI standards applied. Users can choose W-seal or C-seal based on customs and accessories selection. The leak rate (helium) of the sealing face $\leqslant 1\times10^{-9}$ std·cm^3/s.

W-Seal Body/Substrate/Gasket


W-Seal Body Base


W-Seal Substrate


W-Seal Gasket

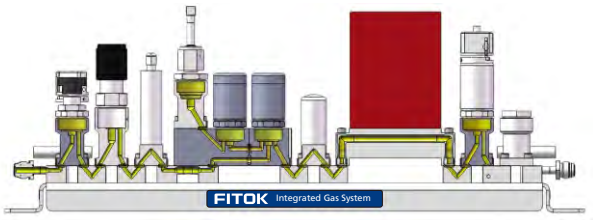
C-Seal Body/Substrate/Gasket


C-Seal Body Base

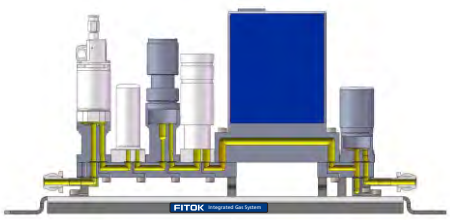

C-Seal Substrate


C-Seal Gasket

Typical W-Seal System



Typical C-Seal System



Special Tool Kit

FITOK provides special tool kits to enable efficient assembly and maintenance.
Part number: SC-IGS-11.
Special tool kit content:

Name	Function	Qty.
Substrate positioning fixture	W-seal substrate positioning	3 pcs.
MFC (92 mm) positioning fixture	W-seal substrate positioning	1 pc.
Torque screwdriver	1~6 N·m, used to secure substrates and valves	1 pc.
Torque screwdriver bits	For M4 screws	2 pcs.
Extra-long T type hex key	For M4 screws	1 pc.
Gasket tweezers	For 1.125" W-seal gaskets	1 pc.

Heat Trace Cable

Heat trace cables are optional for gas path in need of heat trace.

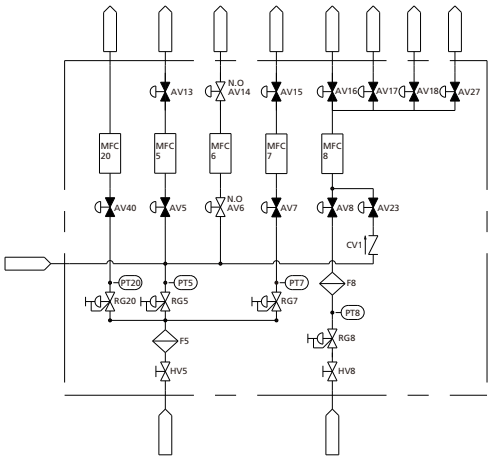
Process Specification

Item \ Process Specification	Ultra High Purity Process (FC-03)
Material	316L SS, 316L SS VAR
Wetted Surface Roughness	Ra 5 µin. (0.13 µm)
Polishing Process	Electropolished
Cleaning	Ultra high purity cleaning in continuously monitored ultrasonic cleaning system with deionized water
Assembly Environment	ISO 4 / Federal 10 Clean Room
Packaging	Double bagged in cleanroom

Modular System Design Processes

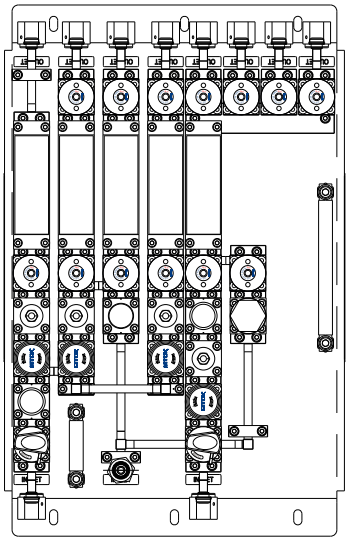
Step 1: System Design

Determine basic component selections based on the schematic diagram provided by the customer.



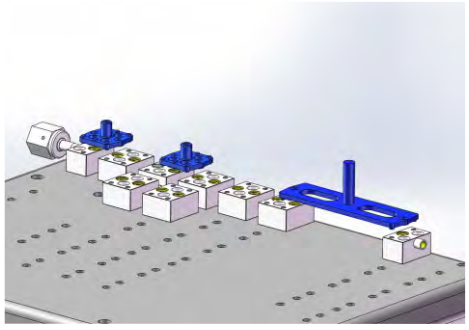
Step 2: Component Manufacturing

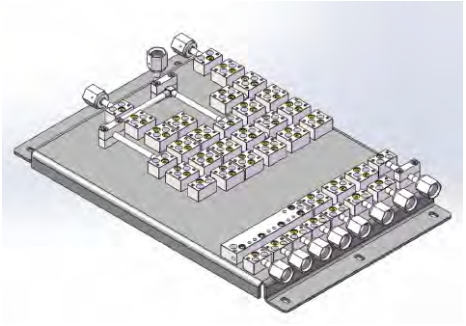
Manufacture components to the drawings after the customer finalizes the configuration.



Step 3: Component Assembly

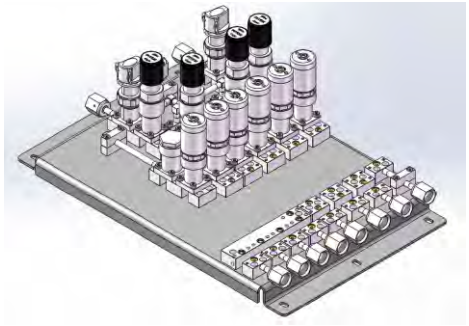
A substrate positioning tool is required for W-seal system assembly, but not for C-seal systems.

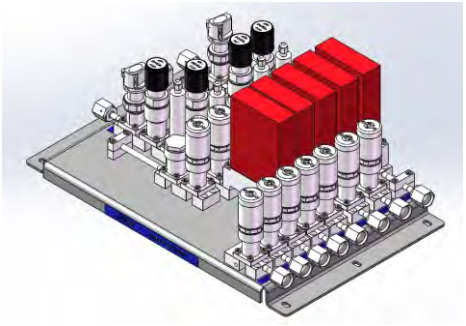




Step 4: Testing

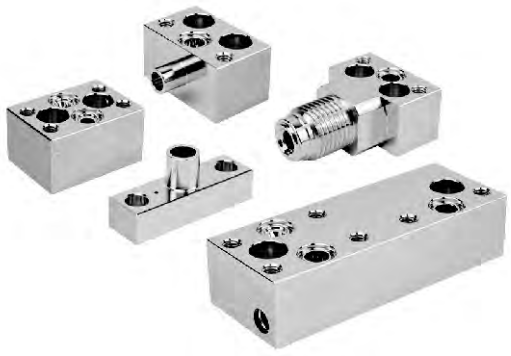
Standard tests include helium leak testing and pressure testing. Particle testing is optional.





Parts

Substrates ISW Series



Features

◎ Tolerance compensation structure to enable less assembly tolerances and maximize system sealing performance
◎ Final assembly and packaging performed in ISO 4 cleanroom

Technical Data

◎ 1.125" W-Seal
◎ Leak Rate (Helium): $\leqslant 1\times10^{-9}$ std·cm^3/s
◎ FC-03 Ultra-high Purity Process Specification
◎ Wetted surface roughness less than Ra 5 µin. (0.13 µm)
For Pores with an L/D Greater than 10, the Roughness Less than Ra 32 µin. (0.8 µm)

Process Specification

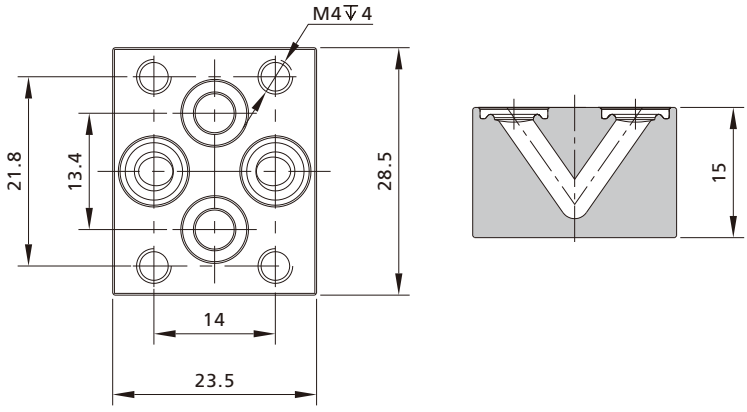
Item \ Process Specification	Ultra High Purity Process (FC-03)
Material	316L SS, 316L SS VAR
Wetted Surface Roughness	Ra 5 µin. (0.13 µm)
Polishing Process	Electropolished

Contents

Dimensions and Ordering Information

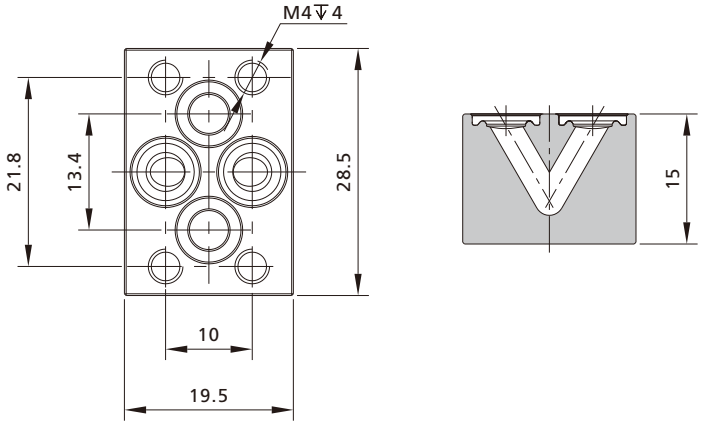
Standard Substrates

Basic Ordering Number: -IVB-WS11-V014-F3
Unit: mm



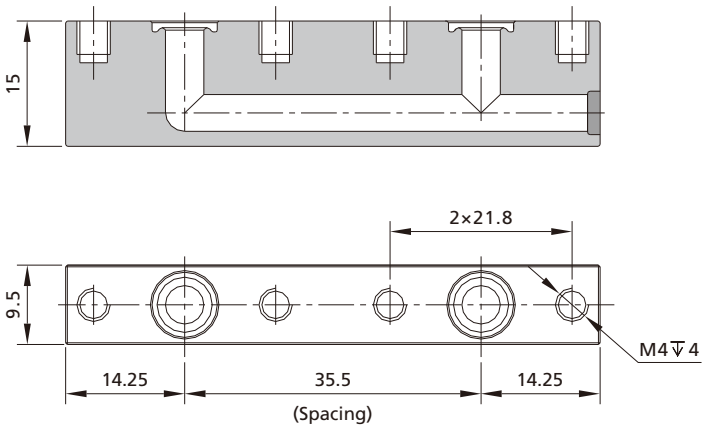
Standard Substrates

Basic Ordering Number: -IVB-WS11-V010-F3
Unit: mm



1-Path Bypass Substrates

Spacing 35.5 mm Basic Ordering Number: -ISB-WS11-M200-F3
Spacing 30 mm Basic Ordering Number: -ISB-WS11-M201-F3
Unit: mm



1-Path Bypass Substrates

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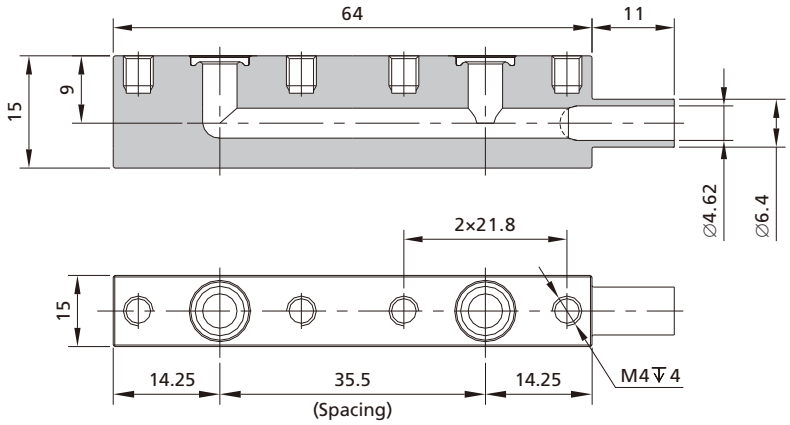
Spacing 30 mm Basic Ordering Number: -ISB-WS11-M211-F3
Unit: mm



1-Path Bypass Substrates

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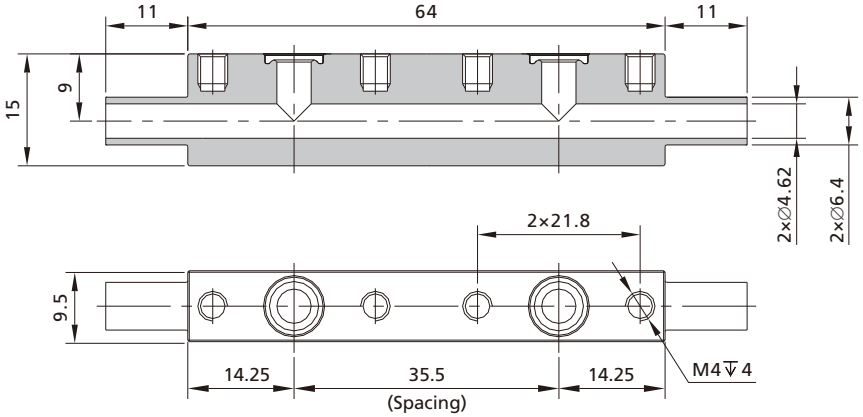
Spacing 30 mm Basic Ordering Number: -ISB-WS11-M221-F3
Unit: mm



1-Path Bypass Substrates

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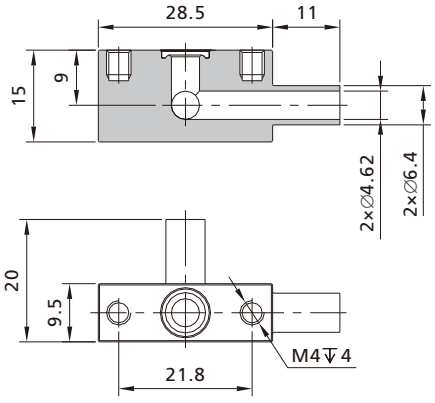
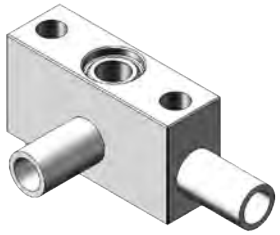
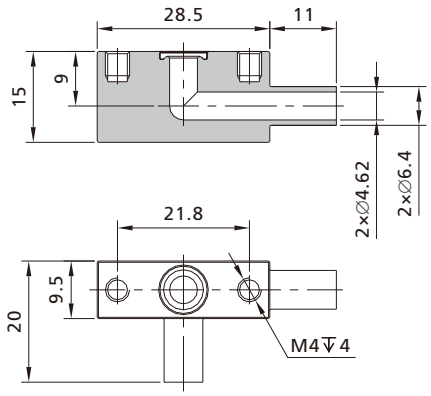
Unit: mm



1-Path Bypass Substrates

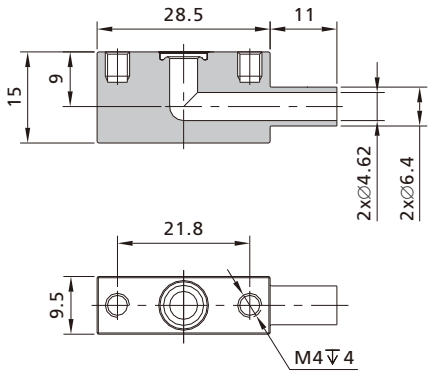
Basic Ordering Number: -ISB-WS11-S121-F3
Unit: mm





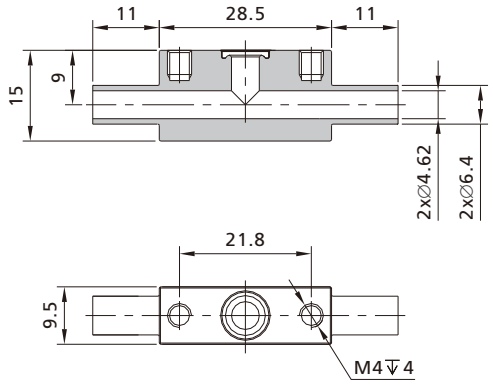
1-Path Bypass Substrates

Basic Ordering Number: -ISB-WS11-S110-F3
Unit: mm



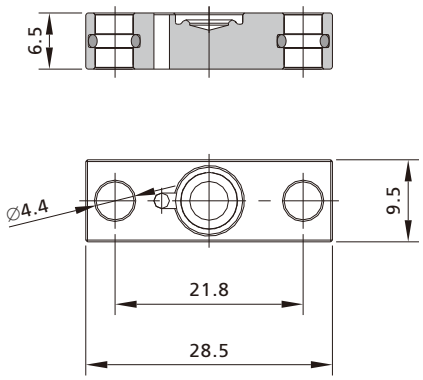
1-Path Bypass Substrates

Basic Ordering Number: -ISB-WS11-S120-F3
Unit: mm



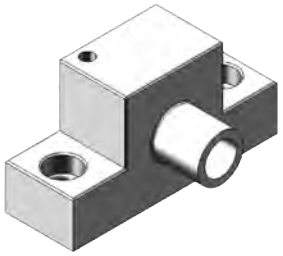
Plugs

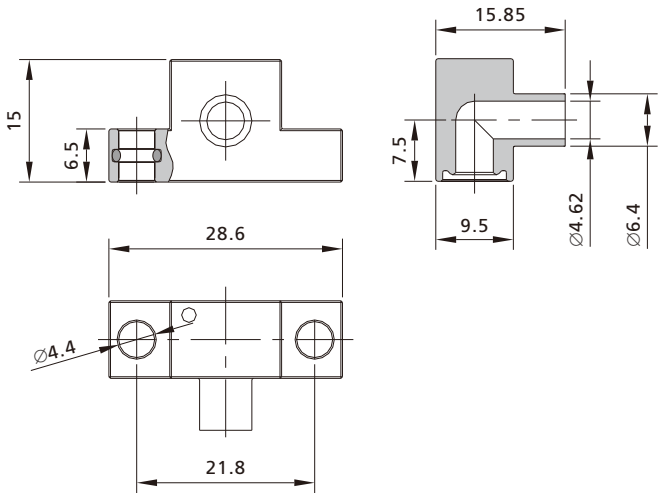
Basic Ordering Number: -IEC-WS11-S100-F3
Unit: mm



Plugs

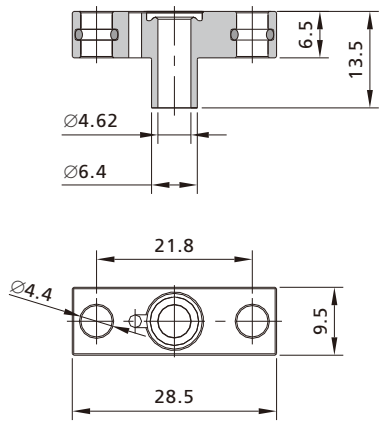
Basic Ordering Number: -IEC-WS11-S120-F3
Unit: mm





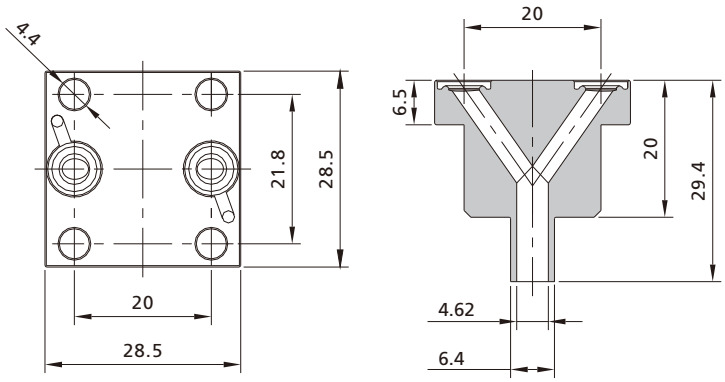
Plugs

Basic Ordering Number: -IEC-WS11-S110-F3
Unit: mm



Transition Substrates

Basic Ordering Number: -ITC-WS11-S201-F3
Unit: mm



Transition Substrates

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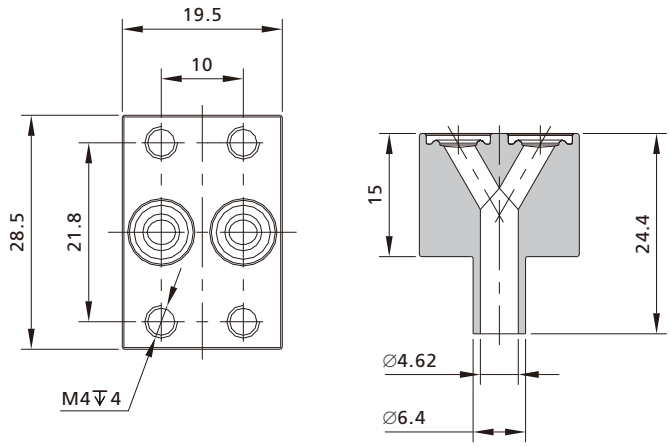
Unit: mm



Transition Substrates

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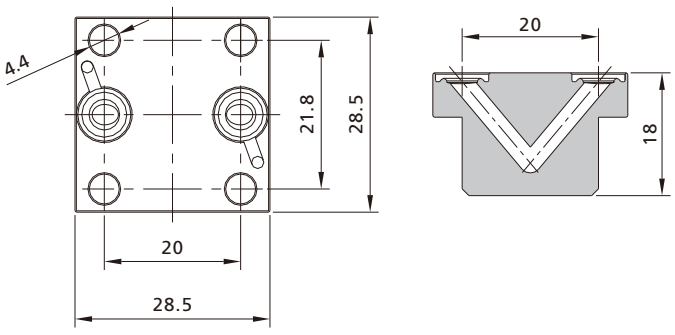
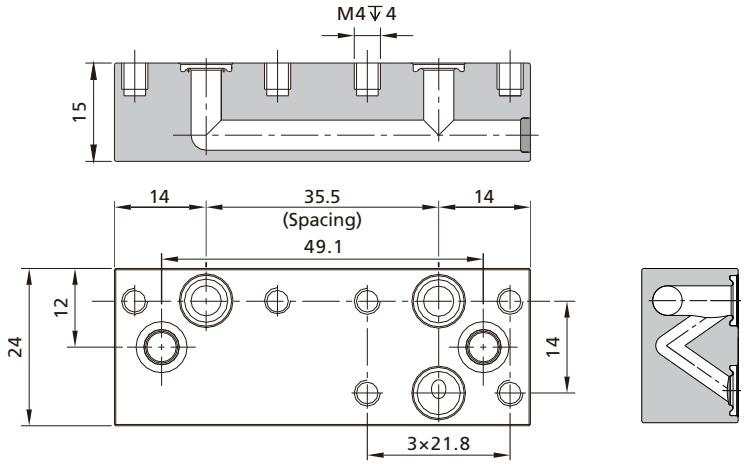
Unit: mm



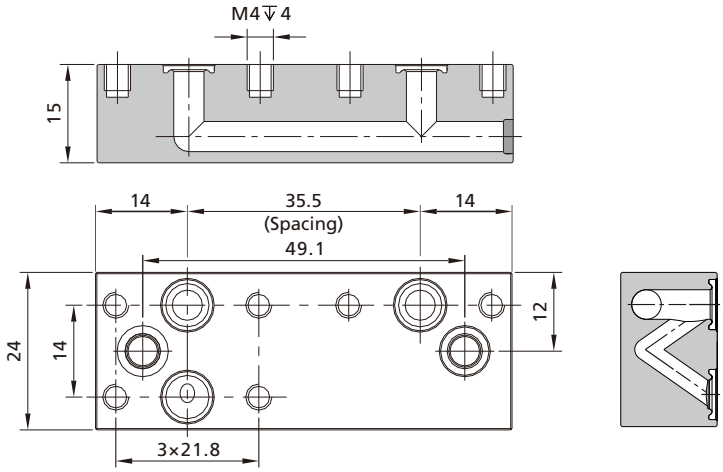
2-Path Bypass Substrates

Spacing 35.5 mm Basic Ordering Number: -IDB-WS11-M210-F3
Spacing 30 mm Basic Ordering Number: -IDB-WS11-M211-F3
Unit: mm



2-Path Bypass Substrates

Spacing 35.5 mm Basic Ordering Number: -IDB-WS11-M220-F3
Spacing 30 mm Basic Ordering Number: -IDB-WS11-M221-F3
Unit: mm



2-Path Bypass Substrates

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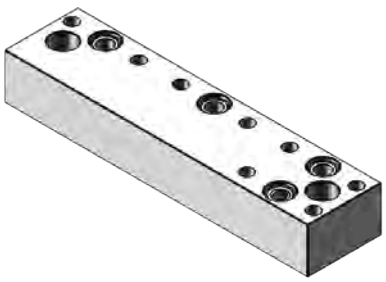
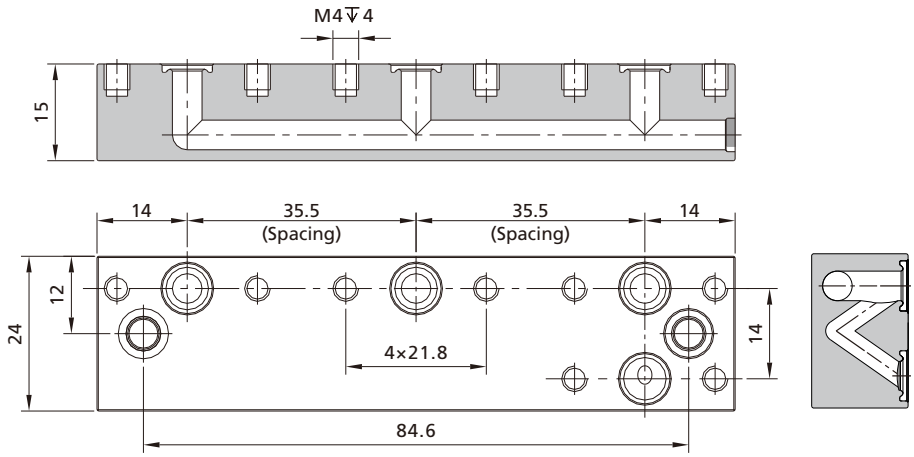
Spacing 30 mm Basic Ordering Number: -IDB-WS11-M311-F3
Unit: mm





2-Path Bypass Substrates

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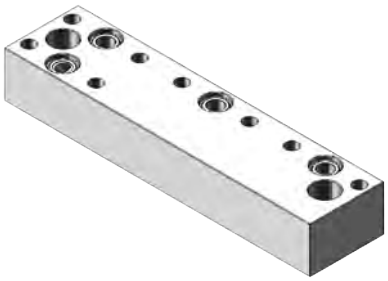
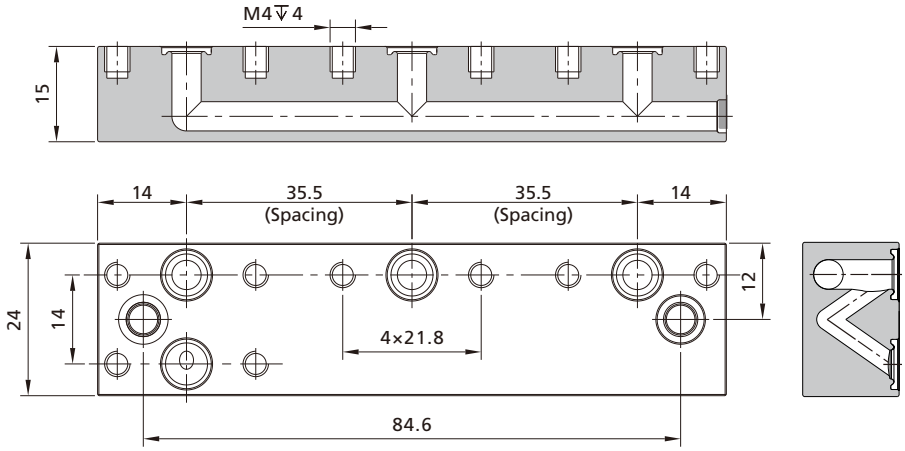
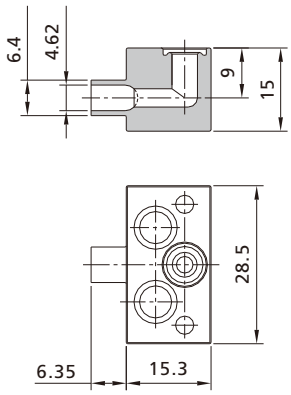
Spacing 30 mm Basic Ordering Number: -IDB-WS11-M321-F3
Unit: mm





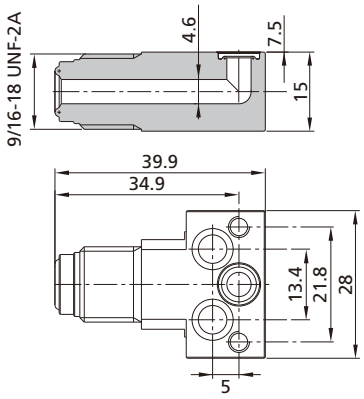
End Substrates

Basic Ordering Number: -IEB-WS11-E102-F3
Unit: mm



End Substrates

Basic Ordering Number: -IEB-WS11-FR4-34.9-F3
Unit: mm



Ordering Number Description

6L - IVB - WS11 - V014 - F3

Body Material	
6L	316L SS
6LV	316L SS VAR

Substrate Type	
IVB	Standard Substrates
ISB	1-Path Bypass Substrates
IEC	Plugs
ITC	Transition Substrates
IDB	2-Path Bypass Substrates
IEB	End Substrates

Port Type	
WS11	1.125" W-Seal

Substrate Designator	
V014	N201
V010	E102
M200	S100
M201	S200
M210	S201
M211	S122
M220	S121
M221	S110
M310	S120
M311	
M320	
M321	

Process Specification	
F3	FC-03

Notes:
"Ordering Number Description" is a reference to understand the combination rules of FITOK product part number.
Not all combinations are available. Please contact FITOK Group or our authorized distributors if you have any requests.

Parts

Substrates ISC Series

Features

◎ Multiple types of flow path applicable to various integrated systems
◎ Final assembly and packaging performed in ISO 4 cleanroom

Technical Data

◎ 1.125" C-Seal
◎ Leak Rate (Helium): $\leqslant 1\times10^{-9}$ std·cm^3/s
◎ FC-03 Ultra-high Purity Process Specification
◎ Wetted surface roughness less than Ra 5 μin. (0.13 μm)

Process Specification

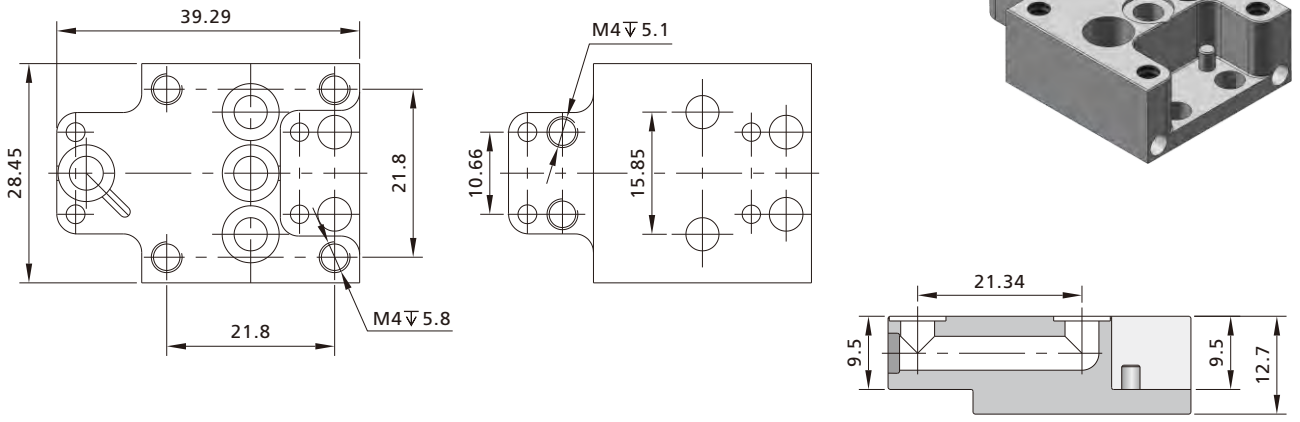
Item \ Process Specification	Ultra High Purity (FC-03)
Material	316L SS, 316L SS VAR
Wetted Surface Roughness	Ra 5 μin. (0.13 μm)
Polishing Process	Electropolished

Contents

Dimensions and Ordering Information

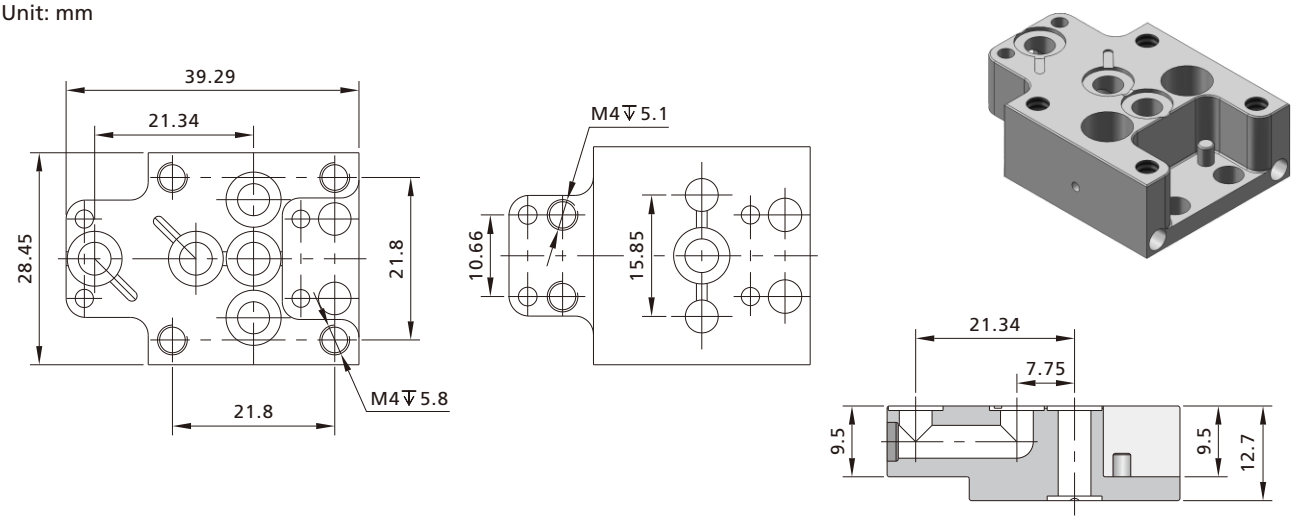
Standard Substrates

Basic Ordering Number: -IVB-CS11-D200-F3
Unit: mm



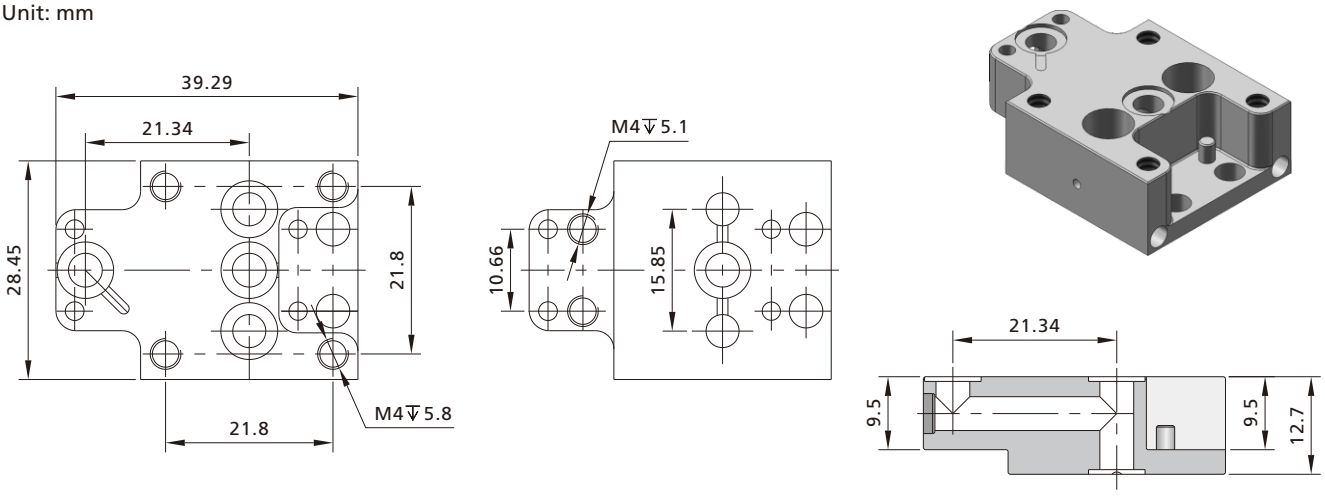
Standard Substrates

Basic Ordering Number: -IVB-CS11-D310-F3
Unit: mm



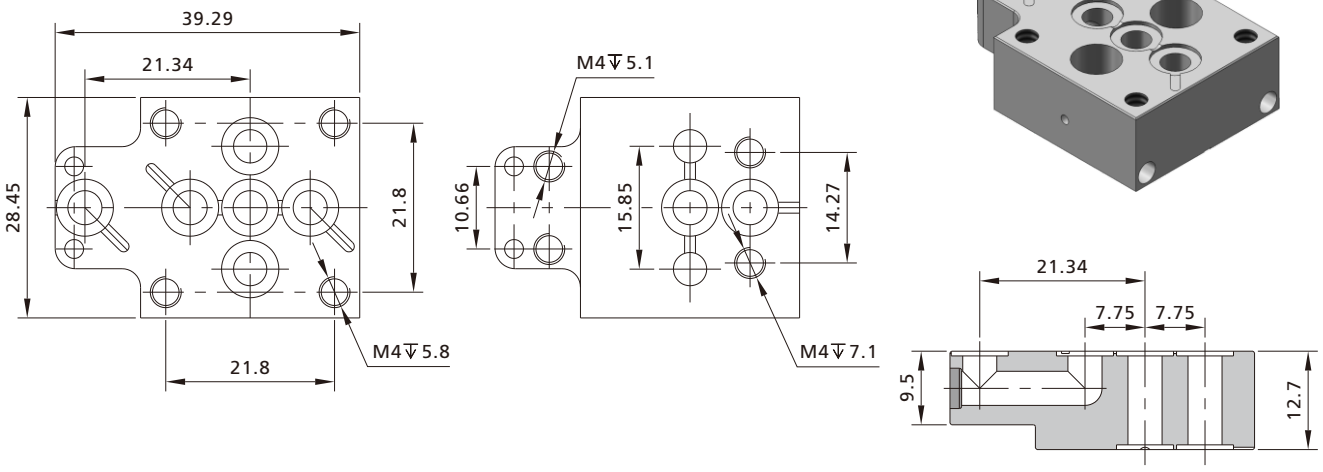
Standard Substrates

Basic Ordering Number: -IVB-CS11-D210-F3
Unit: mm



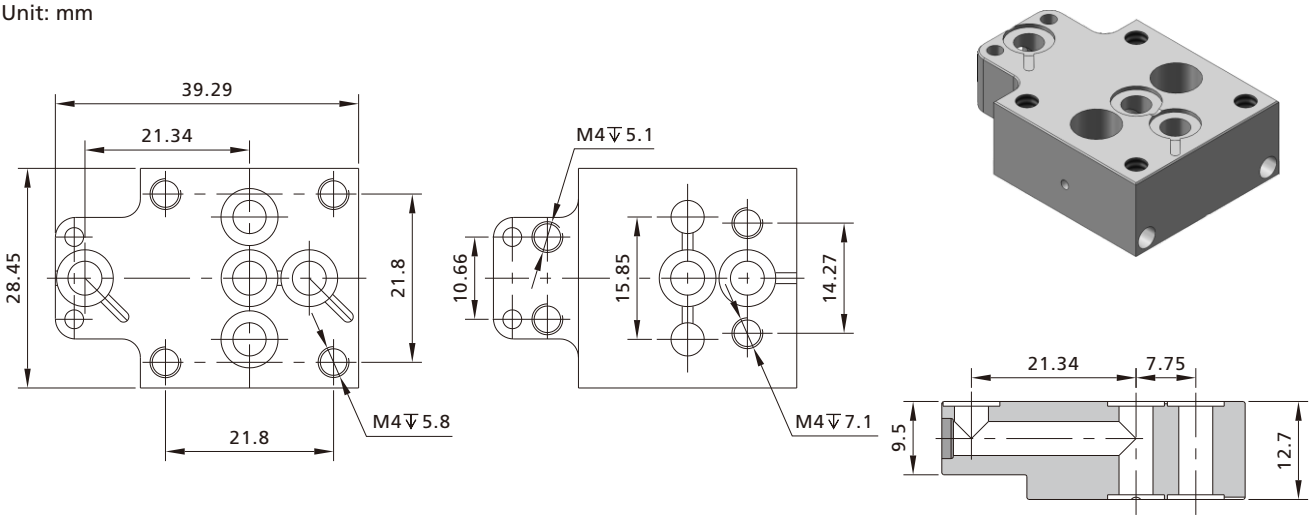
Standard Substrates

Basic Ordering Number: -IVB-CS11-M420-F3
Unit: mm



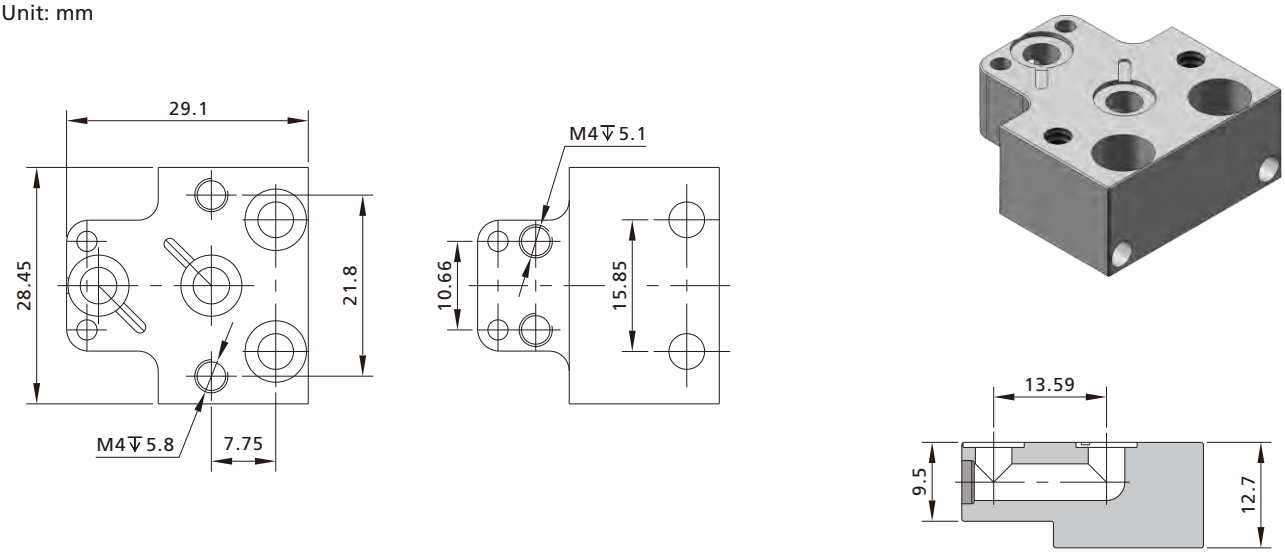
Standard Substrates

Basic Ordering Number: -IVB-CS11-M320-F3
Unit: mm



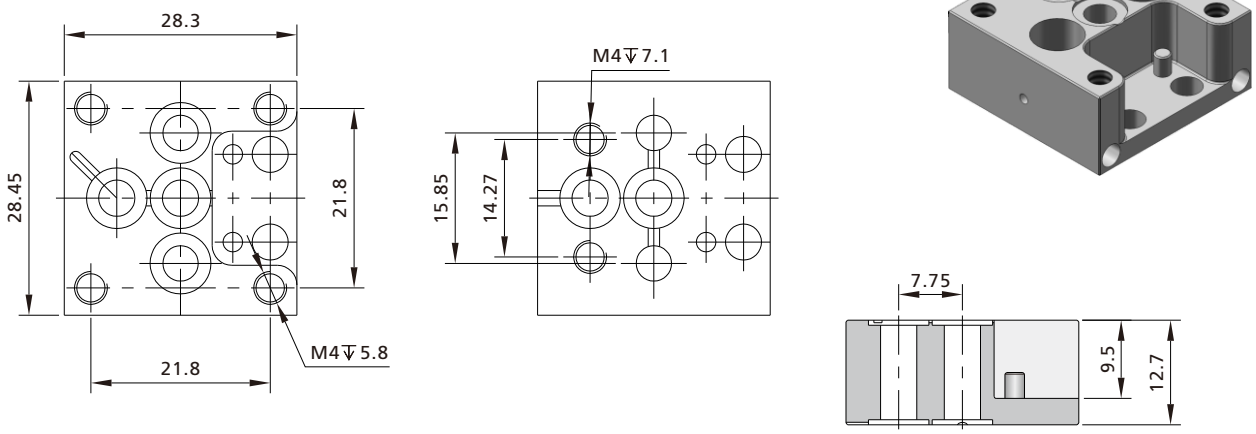
Standard Substrates

Basic Ordering Number: -IVB-CS11-M202-F3
Unit: mm



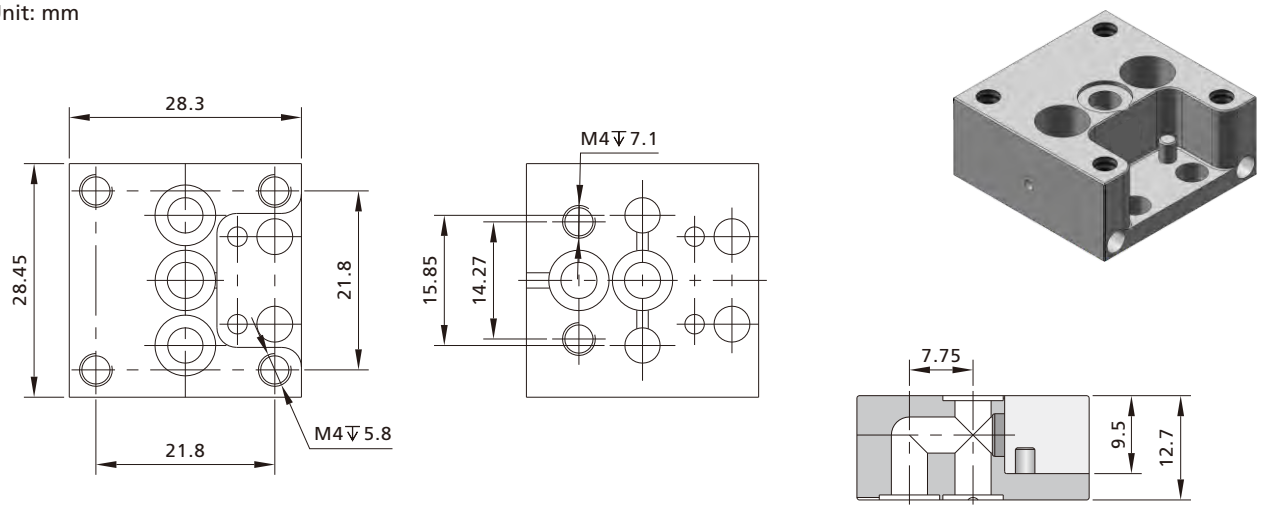
Standard Substrates

Basic Ordering Number: -IVB-CS11-F220-F3
Unit: mm



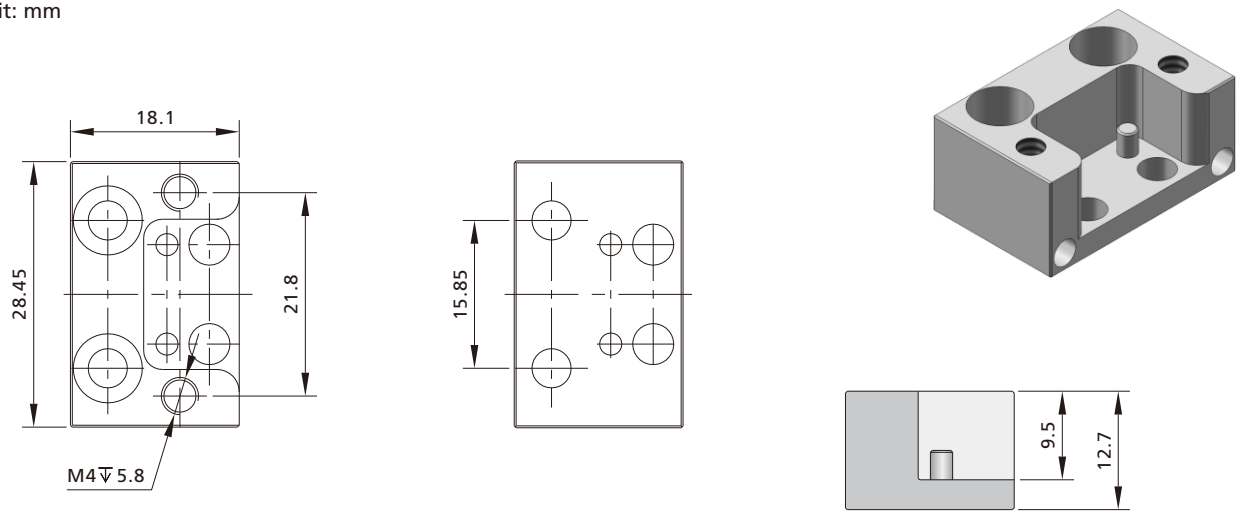
Standard Substrates

Basic Ordering Number: -IVB-CS11-F120-F3
Unit: mm



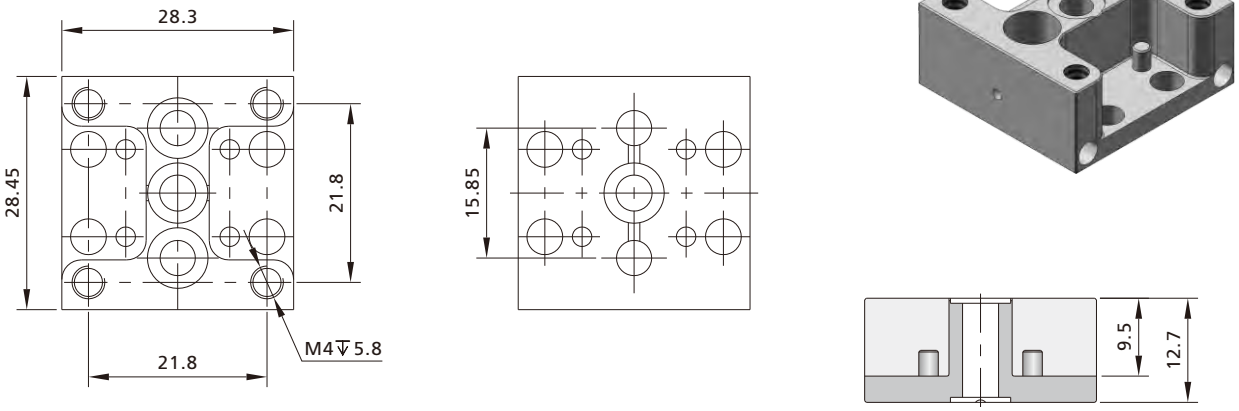
Standard Substrates

Basic Ordering Number: -IVB-CS11-F002-F3
Unit: mm



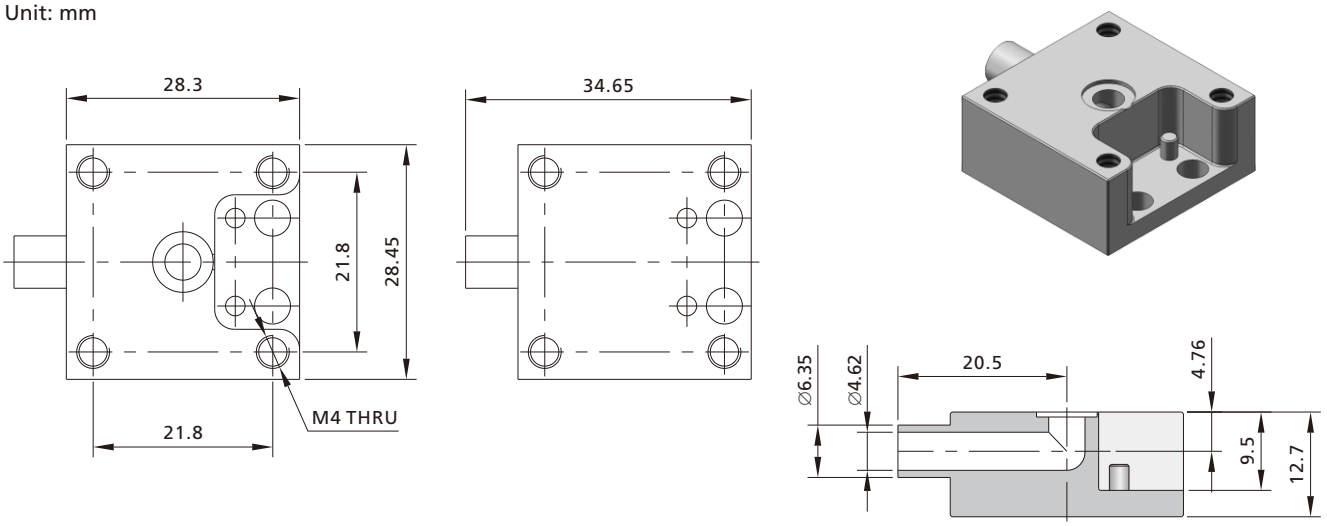
Standard Substrates

Basic Ordering Number: -IVB-CS11-B110-F3
Unit: mm



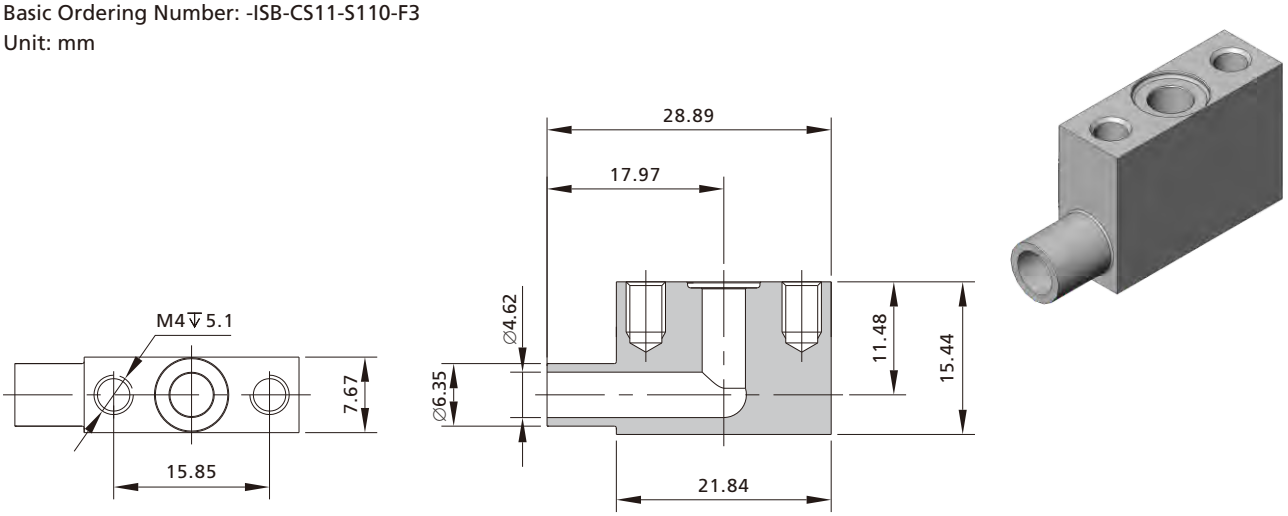
Standard Substrates

Basic Ordering Number: -IVB-CS11-F100-F3
Unit: mm



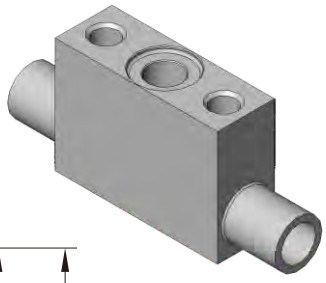
1-Path Bypass Substrates

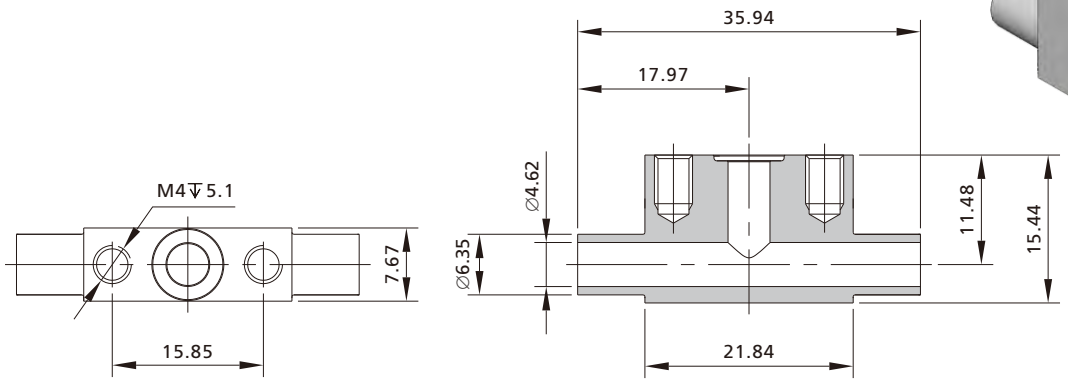
Basic Ordering Number: -ISB-CS11-S110-F3
Unit: mm



1-Path Bypass Substrates

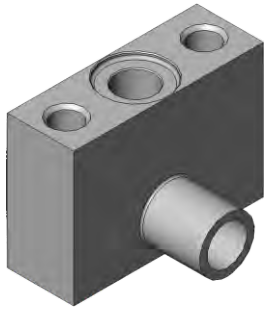
Basic Ordering Number: -ISB-CS11-S120-F3
Unit: mm

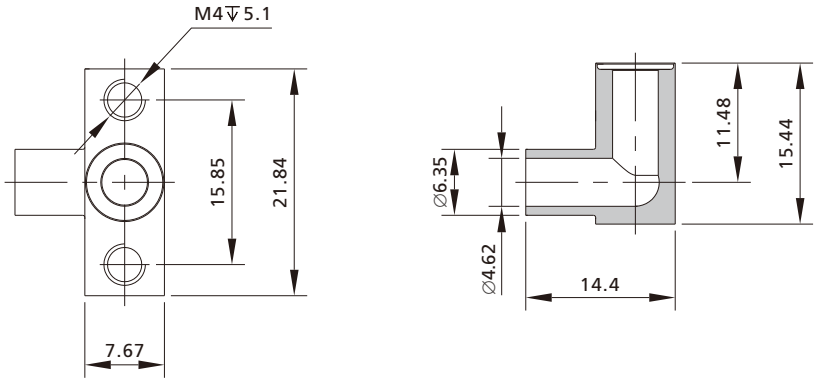




1-Path Bypass Substrates

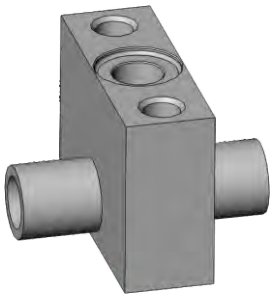
Basic Ordering Number: -ISB-CS11-S111-F3
Unit: mm

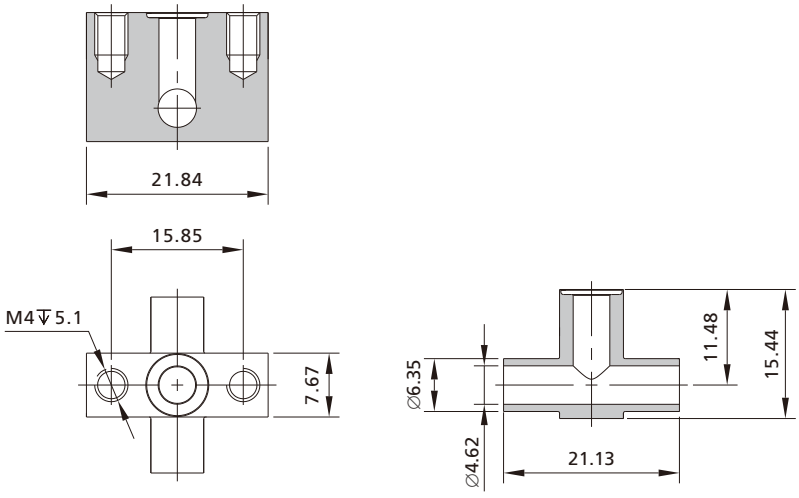




1-Path Bypass Substrates

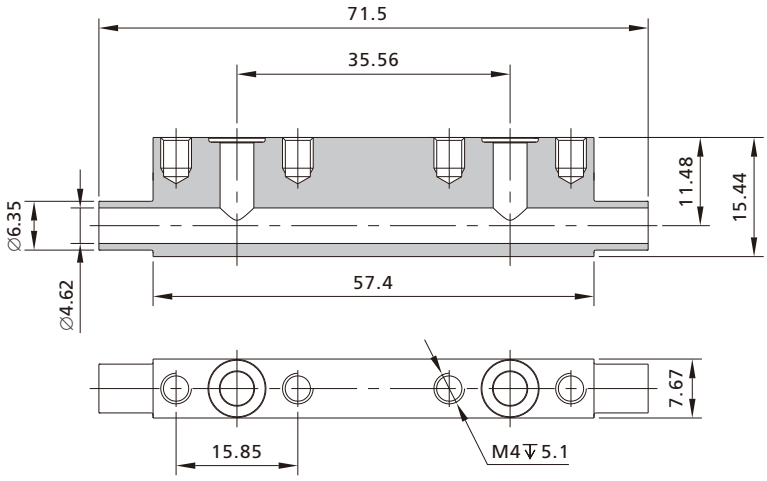
Basic Ordering Number: -ISB-CS11-S126-F3
Unit: mm





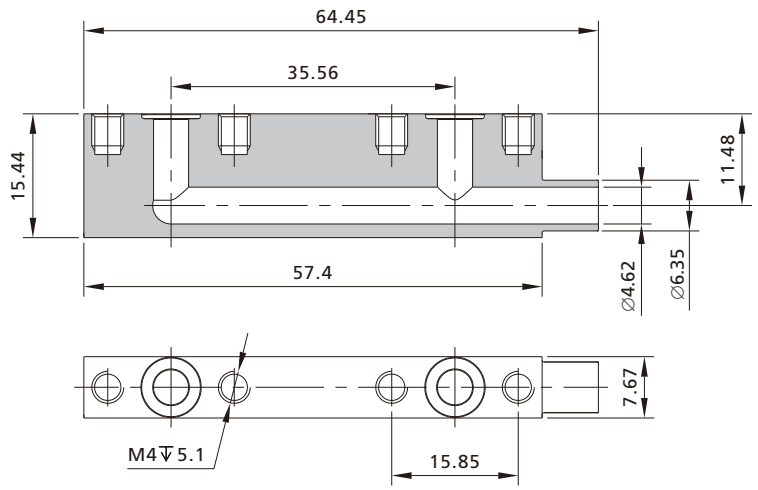
1-Path Bypass Substrates

Basic Ordering Number: -ISB-CS11-M220-F3
Unit: mm



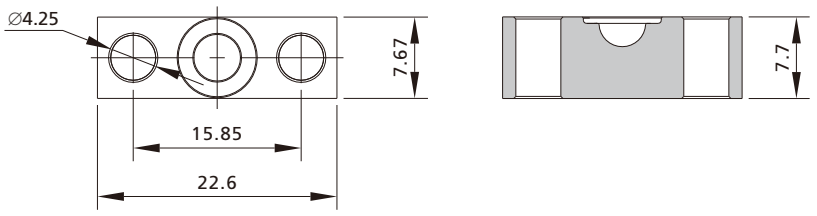
1-Path Bypass Substrates

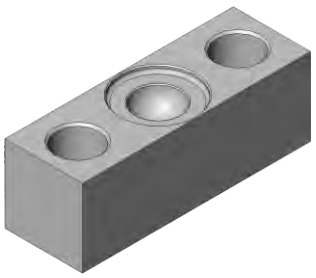
Basic Ordering Number: -ISB-CS11-M210-F3
Unit: mm



Plugs

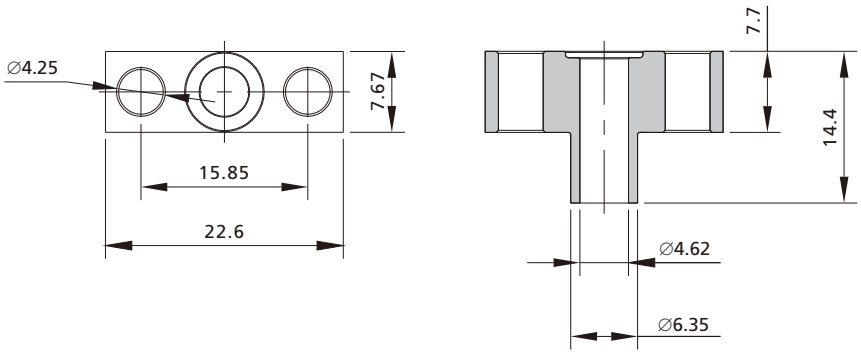
Basic Ordering Number: -IEC-CS11-S102-F3
Unit: mm





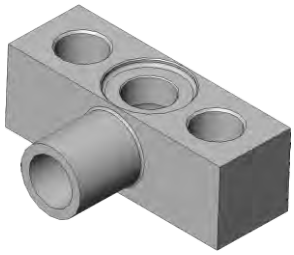
Plugs

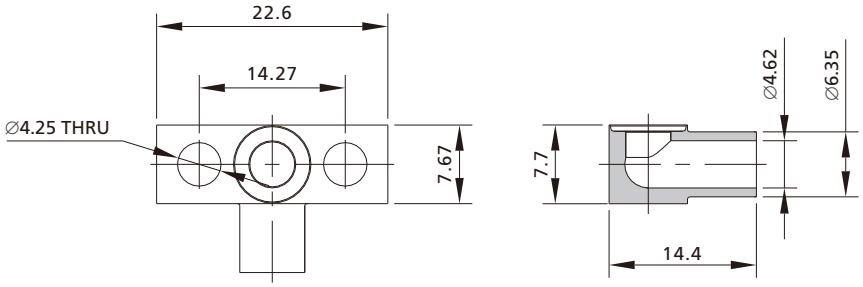
Basic Ordering Number: -IEC-CS11-S112-F3
Unit: mm



Plugs

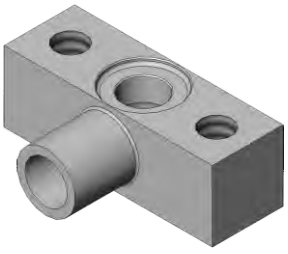
Basic Ordering Number: -IEC-CS11-S120-F3
Unit: mm

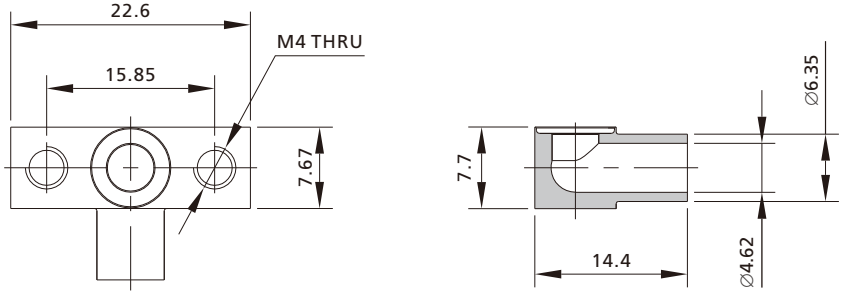




Plugs

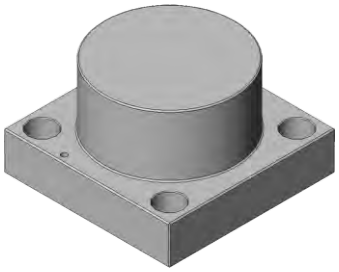
Basic Ordering Number: -IEC-CS11-S121-F3
Unit: mm

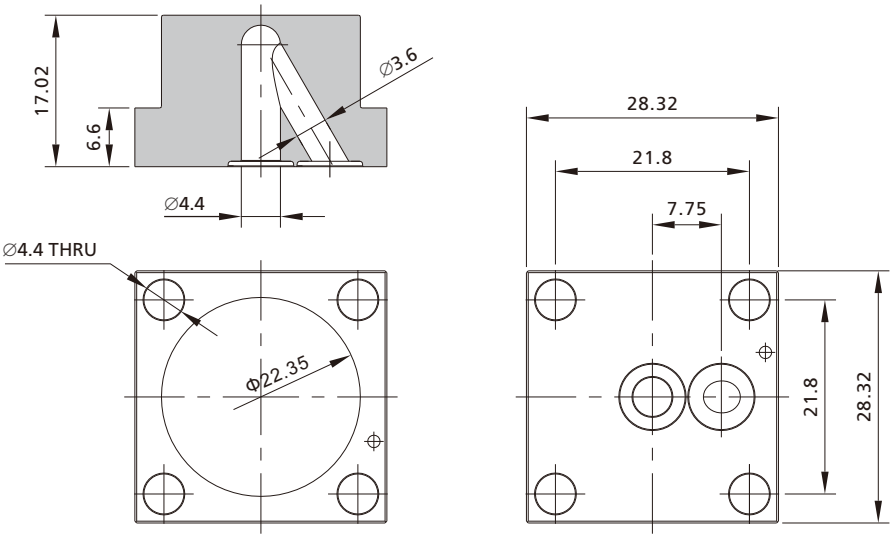




Transition Substrates

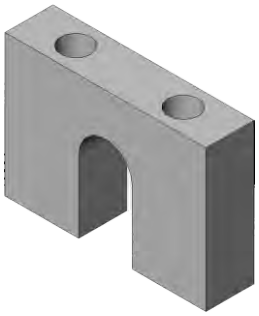
Basic Ordering Number: -ITC-CS11-S200-F3
Unit: mm

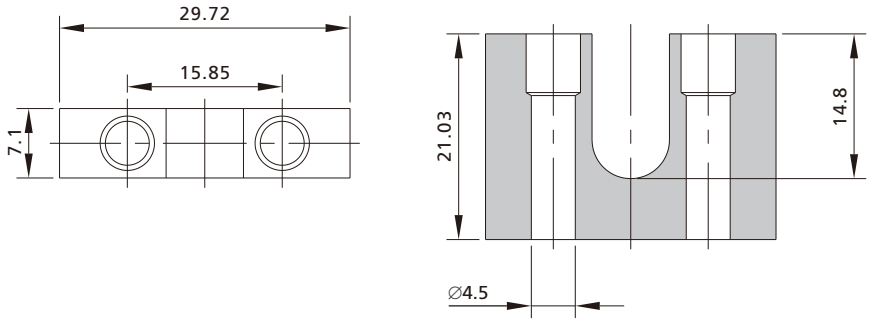




Mount Blocks

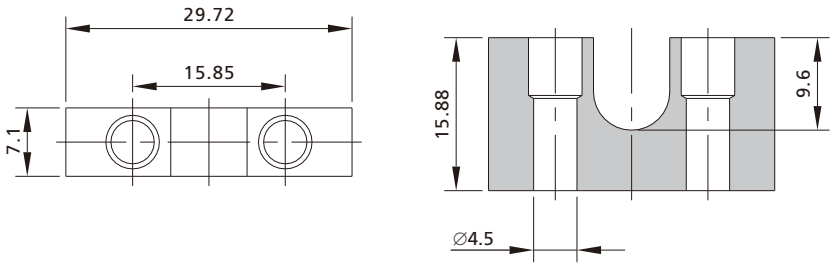
Ordering Number: AL-IDK-S418-F3
Unit: mm





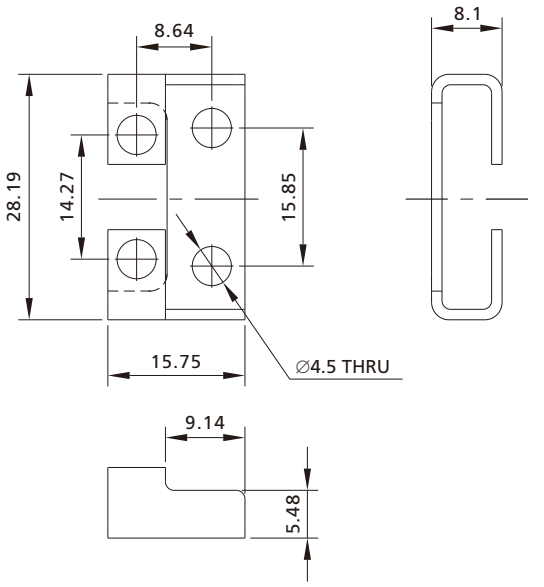
Mount Blocks

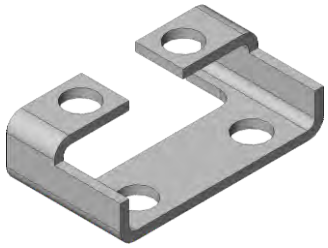
Ordering Number: AL-IDK-S416-F3
Unit: mm



Brackets

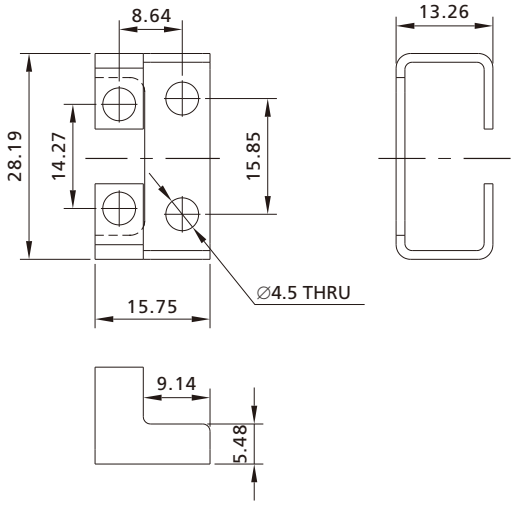
Ordering Number: S4-IZJ-C413-F3
Unit: mm

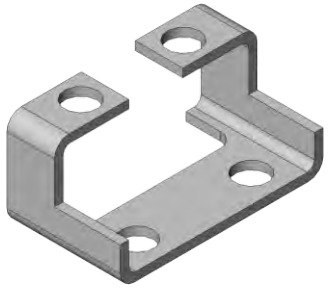




Brackets

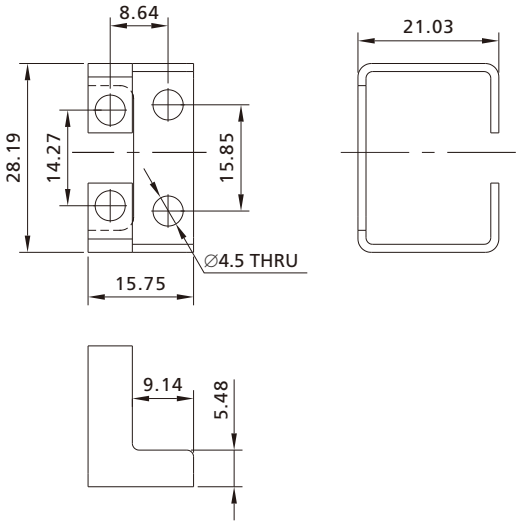
Ordering Number: S4-IZJ-C415-F3
Unit: mm

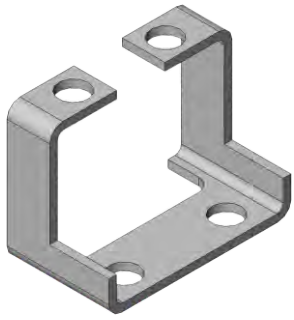




Brackets

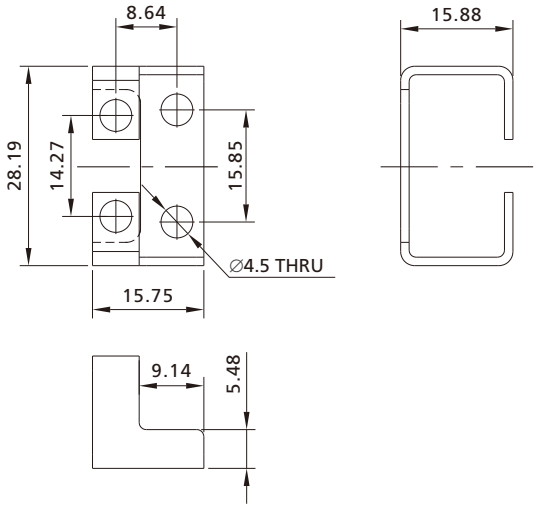
Ordering Number: S4-IZJ-C418-F3
Unit: mm

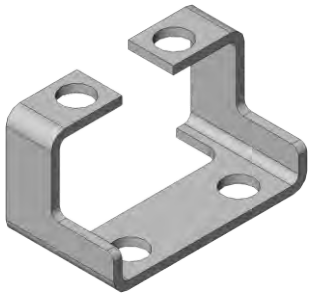




Brackets

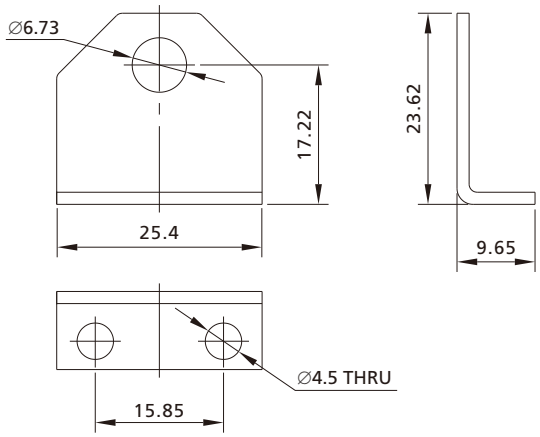
Ordering Number: S4-IZJ-C416-F3
Unit: mm

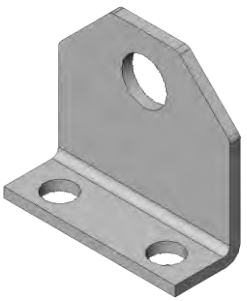




Brackets

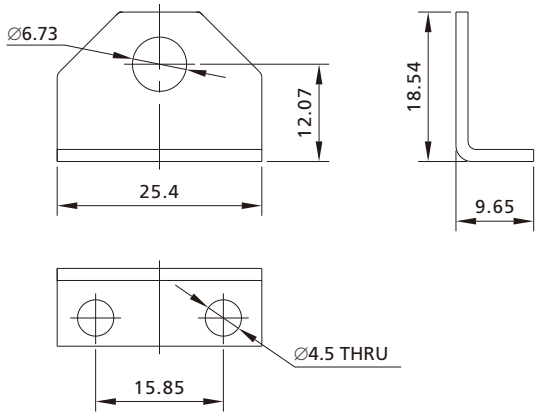
Ordering Number: S4-IZJ-L417-F3
Unit: mm

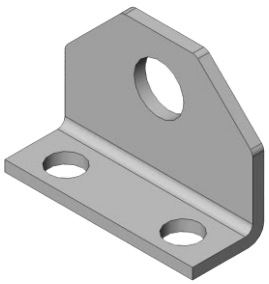




Brackets

Ordering Number: S4-IZJ-L415-F3
Unit: mm





Ordering Number Description

6L - IVB - CS11 - M202 - F3

Body Material	
6L	316L SS
6LV	316L SS VAR
AL	Aluminum Alloy for Mount Block Only
S4	304 SS for Bracket Only

Substrate Type	
IVB	Standard Substrate
ISB	1-Path Bypass Substrate
IEC	Plug
ITC	Transition Substrate
IDK	Mount Block
IZJ	Bracket

Port Type	
CS11	1.125" C-Seal
	Mount Block
	Bracket

Substrate Designator	
D200	S126
D310	S102
D210	S112
M420	S120
M320	S121
M202	S200
M220	S418
M210	S416
F220	C413
F120	C415
F002	C418
B110	C416
F100	L417
S110	L415
S111	

Process Specification	
F3	FC-03

Notes:
1. "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available. Please contact FITOK Group or our authorized distributors if you have any requests.
2. Brackets and mount blocks are only cleaned and packaged in accordance with FC-03.

Parts

Sealing Gaskets IWG Series

Features

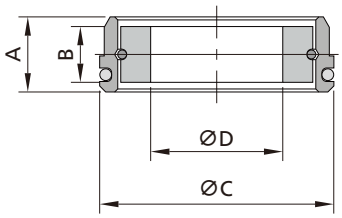
◎ 1.125" and 1.5"
◎ Sealing faces independent of components receiving external forces
◎ Electropolished to a surface finish of Ra 5 μin. (0.13 μm) max.
◎ Leak Rate (Helium): $\leqslant 1\times10^{-9}$ std·cm^3/s

Process Specification

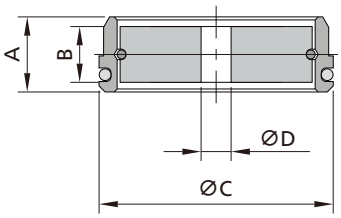
Item \ Process Specification	Ultra High Purity (FC-03)
Material	316L SS, 316L SS VAR
Wetted Surface Roughness	Ra 5 μin. (0.13 μm)
Polishing Process	Electropolished

Dimensions and Ordering Information

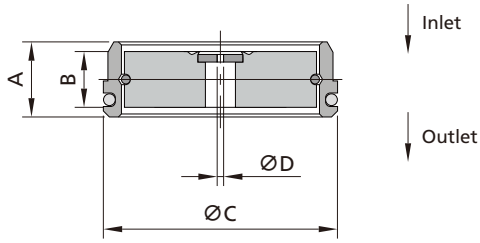
W-Seal Gasket Standard Model



W-Seal Gasket Restriction Model



W-Seal Gasket Ruby Orifice Restriction Model



Basic Ordering Number	Port Type and Size	Dimensions, in. (mm)			
		A	B	C	D
-IWG-WS11-F3	1.125" W-Seal (Standard Model)	0.1 (2.5)	0.07 (1.86)	0.31 (7.8)	0.17 (4.4)
-IWG-WS11-ID※※※-F3①	1.125" W-Seal (Restriction Model)	0.1 (2.5)	0.07 (1.86)	0.31 (7.8)	※※※
-IWG-WS11-R※※※-F3②	1.125" W-Seal (Ruby Restriction Model)	0.1 (2.5)	0.07 (1.86)	0.31 (7.8)	※※※
-IWG-WS15-F3	1.5" W-Seal (Standard Model)	0.15 (3.8)	0.07 (1.9)	0.39 (10)	0.17 (4.4)

① ID※※※ indicates restriction orifice sizes, such as 0.3, which means an orifice size of Ø0.3 mm (only in mm).
Example: 6L-IWG-WS11-ID0.3-F3. Orifice sizes are available from 0.05 mm to 4.35 mm in 0.05 mm increments.
For more size options, please contact FITOK.

② a. R※※※ indicates ruby orifice sizes, such as 012, which means an orifice size of Ø0.012" (012/1000", only in inch).
Example: 6L-IWG-WS11-R012-F3. Orifice sizes are available from 0.0015" to 0.035" in 0.0005" increments.
For more size options, please contact FITOK.
b. When using the ruby orifice restriction gasket, it is recommended that the ruby side faces the gas inlet to enable more stable and uniform flow.
c. The maximum working pressure of the ruby orifice restriction gasket is 145 psig (10 bar). For use in working conditions with higher pressure requirements, please contact FITOK.

Ordering Number Description

6L - IWG - WS11 - R012 - F3

Body Material	
6L	316L SS
6LV	316L SS VAR

Port Size	
11	1.125"
15	1.5"

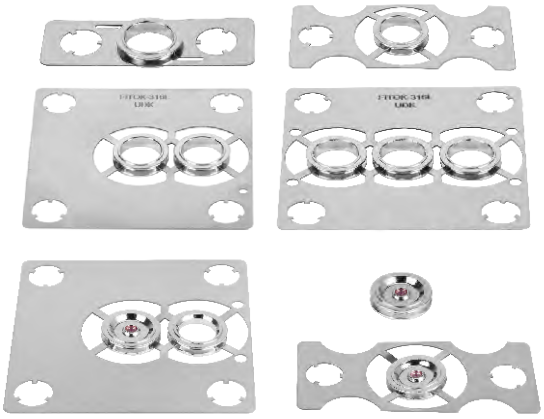
Flow Requirement	
	Standard Model
ID※※※	Restriction Model, Orifice ※※※ mm
R※※※	Ruby Orifice Restriction Model, Orifice ※※※/1000 in.

Process Specification	
F3	FC-03

Note: "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number.
Not all combinations are available. Please contact FITOK Group or our authorized distributors if you have any requests.

Parts

Sealing Gaskets ICG Series



Features

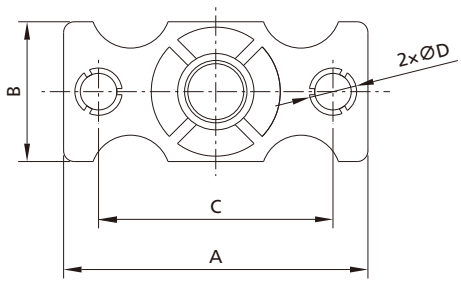
◎ 1.125" and 1.5"
◎ Electropolished to a surface finish of Ra 5 μin. (0.13 μm) max.
◎ Leak Rate (Helium): ⩽1×10^{-9} std·cm^3/s

Process Specification

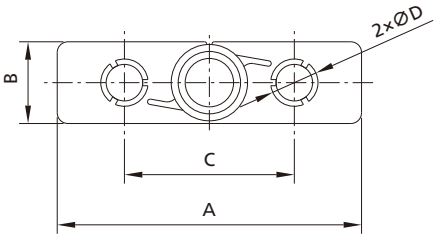
Item \ Process Specification	Ultra High Purity (FC-03)
Material	316L SS, 316L SS VAR
Wetted Surface Roughness	Ra 5 μin. (0.13 μm)
Polishing Process	Electropolished

Dimensions and Ordering Information

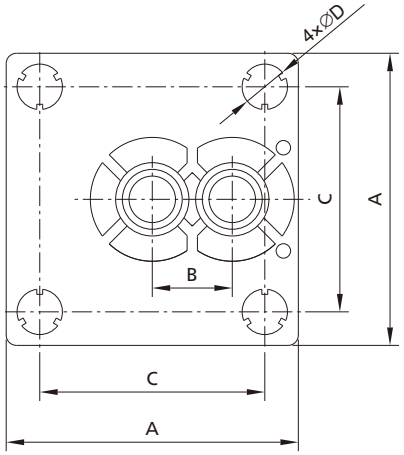
C-Seal Gasket Bracket 1P Standard Model



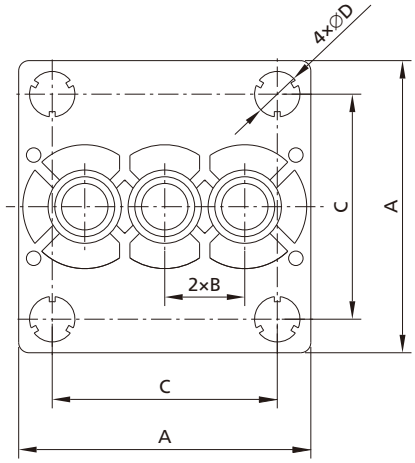
C-Seal Gasket Bracket 1P Special Size Model
"-M-""-F-""-M86-"



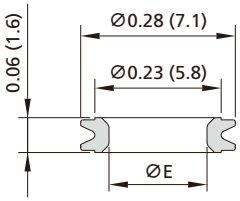
C-Seal Gasket Bracket 2P Standard Model



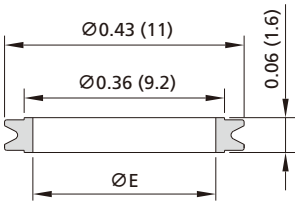
C-Seal Gasket Bracket 3P Standard Model



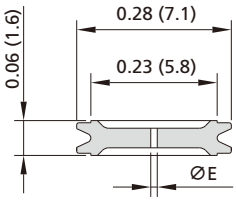
C-Seal Gasket Standard Model



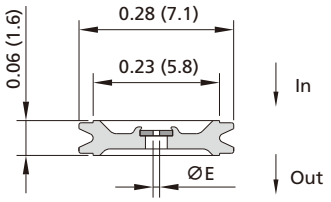
C-Seal Gasket High Flow Model



C-Seal Gasket Restriction Model
(Only for CS11)



C-Seal Gasket Ruby Orifice Restriction Model
(Only for CS11)



Basic Ordering Number	Port Type and Size	Dimensions, in. (mm)				
		A	B	C	D	E
-ICG-CS11-1P-F3	1.125" C-Seal (Standard Model)	1.11 (28.3)	0.51 (13)	0.86 (21.80)	0.17 (4.4)	0.18 (4.5)
-ICG-CS11-1P-M-F3	1.125"C-Seal (Special Size Model)	1.11 (28.3)	0.30 (7.6)	0.62 (15.85)	0.17 (4.4)	0.18 (4.5)
-ICG-CS11-1P-F-F3	1.125" C-Seal (Special Size Model)	1.11 (28.3)	0.30 (7.6)	0.56 (14.27)	0.17 (4.4)	0.18 (4.5)
-ICG-CS11-1P-M86-F3	1.125" C-Seal (Special Size Model)	0.85 (21.6)	0.30 (7.6)	0.62 (15.85)	0.17 (4.4)	0.18 (4.5)
-ICG-CS11-1P-ID※※※-F3①	1.125" C-Seal (Restriction Model)	1.11 (28.3)	0.51 (13)	0.86 (21.8)	0.17 (4.4)	※※※
-ICG-CS11-1P-R※※※-F3②	1.125" C-Seal (Ruby Restriction Model)	1.11 (28.3)	0.51 (13)	0.86 (21.8)	0.17 (4.4)	※※※
-ICG-CS11-2P-F3	1.125" C-Seal (Standard Model)	1.11 (28.3)	0.31 (7.75)	0.86 (21.8)	0.17 (4.4)	0.18 (4.5)
-ICG-CS11-2P-CID※※※-F3①	1.125" C-Seal (Restriction Model)	1.11 (28.3)	0.31 (7.75)	0.86 (21.8)	0.17 (4.4)	※※※
-ICG-CS11-2P-SR※※※-F3②	1.125" C-Seal (Ruby Restriction Model)	1.11 (28.3)	0.31 (7.75)	0.86 (21.8)	0.17 (4.4)	※※※
-ICG-CS11-3P-F3	1.125" C-Seal (Standard Model)	1.11 (28.3)	0.31 (7.75)	0.86 (21.8)	0.17 (4.4)	0.18 (4.5)
-ICG-CS11-3P-SID※※※-F3①	1.125" C-Seal (Restriction Model)	1.11 (28.3)	0.31 (7.75)	0.86 (21.8)	0.17 (4.4)	※※※
-ICG-CS11-3P-CR※※※-F3②	1.125" C-Seal (Ruby Restriction Model)	1.11 (28.3)	0.31 (7.75)	0.86 (21.8)	0.17 (4.4)	※※※
-ICG-CS15-1P-F3	1.5" C-Seal (Standard Model)	1.48 (37.6)	0.51 (13)	1.18 (30.2)	0.2 (5.2)	0.18 (4.5)
-ICG-CS15-2P-F3	1.5" C-Seal (Standard Model)	1.48 (37.6)	0.31 (7.75)	1.18 (30.2)	0.2 (5.2)	0.18 (4.5)
-ICG-CS15-3P-F3	1.5" C-Seal (Standard Model)	1.48 (37.6)	0.31 (7.75)	1.18 (30.2)	0.2 (5.2)	0.18 (4.5)
-ICG-CS15-1P-HF-F3	1.5" C-Seal (High Flow Model)	1.48 (37.6)	0.52 (13.2)	1.18 (30.2)	0.2 (5.2)	0.33 (8.4)
-ICG-CS15-2P-HF-F3	1.5" C-Seal (High Flow Model)	1.48 (37.6)	0.46 (11.6)	1.18 (30.2)	0.2 (5.2)	0.33 (8.4)
-ICG-CS15-3P-HF-F3	1.5" C-Seal (High Flow Model)	1.48 (37.6)	0.46 (11.6)	1.18 (30.2)	0.2 (5.2)	0.33 (8.4)

① ID※※※ indicates restriction orifice sizes, such as 0.3, which means an orifice size of ∅0.3 mm (only in mm).
Example: 6L-ICG-CS11-1P-ID0.3-F3. Orifice sizes are available from 0.05 mm to 4.45 mm in 0.05 mm increments.
For more size options, please contact FITOK.

② a. R※※※ indicates ruby orifice sizes, such as 012, which means an orifice size of ∅0.012" (012/1000", only in inch).
Example: 6L-ICG-CS11-1P-R012-F3. Orifice sizes are available from 0.0015" to 0.035" in 0.0005" increments.
For more size options, please contact FITOK.

b. When using the ruby orifice restriction gasket, it is recommended that the ruby side faces the gas inlet to enable more stable and uniform flow.

c. The maximum working pressure of the ruby orifice restriction gasket is 145 psig (10 bar). For use in working conditions with higher pressure requirements, please contact FITOK.

Ordering Number Description

6L - ICG - CS11 - 3P - M - SR012 - F3

Body Material	
6L	316L SS
6LV	316L SS VAR

Port Size	
11	1.125"
15	1.5"

Port Quantity	
1P	1-Port C-Seal Gasket Bracket
2P	2-Port C-Seal Gasket Bracket
3P	3-Port C-Seal Gasket Bracket

Bracket Option	
	Standard Model
M	Special Size Model for 1P Only
F	
M86	

Orifice Location	
	For Standard Model or 1P or HF Only
C	Center
S	Side

Flow Requirement	
	Standard Model
ID※※※	Restriction Model, Orifice ※※※ mm
R※※※	Ruby Orifice Restriction Model, Orifice ※※※/1000 in.
HF	High Flow (For 1.5" Only)

Process Specification	
F3	FC-03

Note: "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number.
Not all combinations are available. Please contact FITOK Group or our authorized distributors if you have any requests.