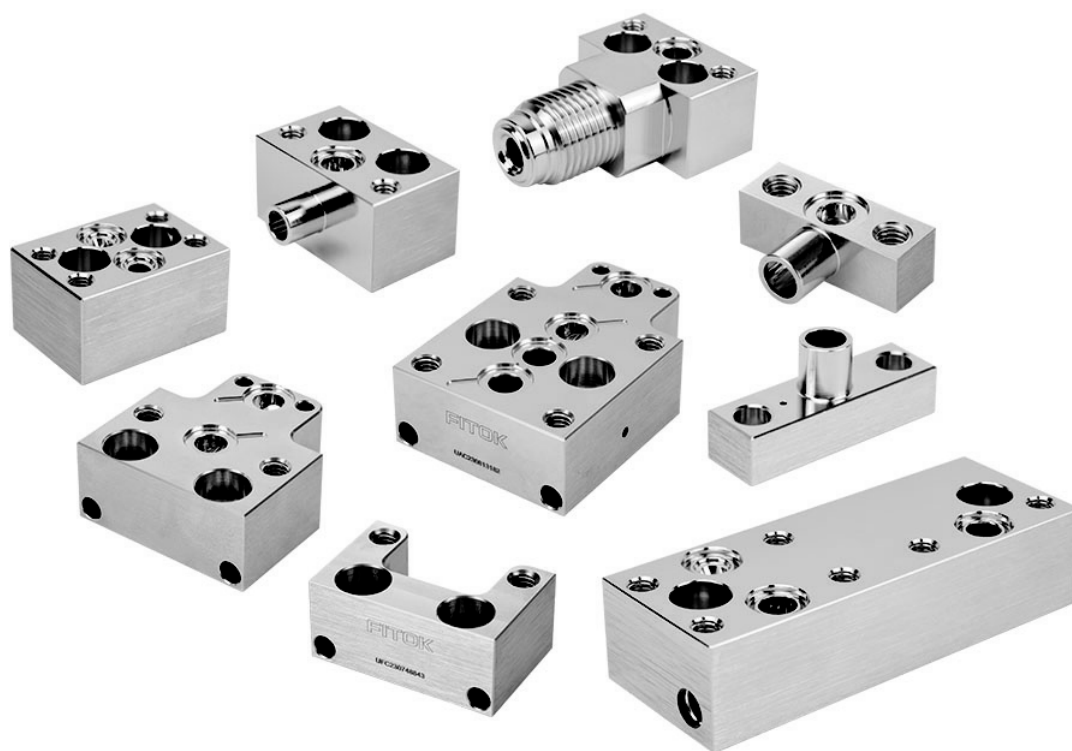


Integrated Gas System Substrates

ISC and ISW Series



Integrated Gas System Substrates

ISC Series

Features

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

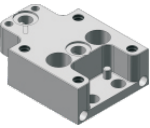
Technical Data

- 1.125" C-Seal
- Helium Leak Rate $\leq 1 \times 10^{-9}$ std cm³/s
- FC-03 Ultra-high Purity Process Specification,
- Wetted Surface Roughness Less than Ra 5 μ in. (0.13 μ m)



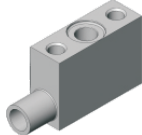
Contents

Standard Substrates -IVB



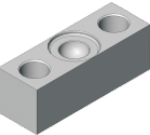
02

1-Path Bypass Substrates -ISB



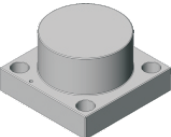
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Plugs -IEC



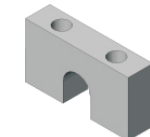
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Transition Substrates -ITC



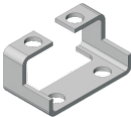
09

Mount Block -IDK



09

Brackets -IZJ



10

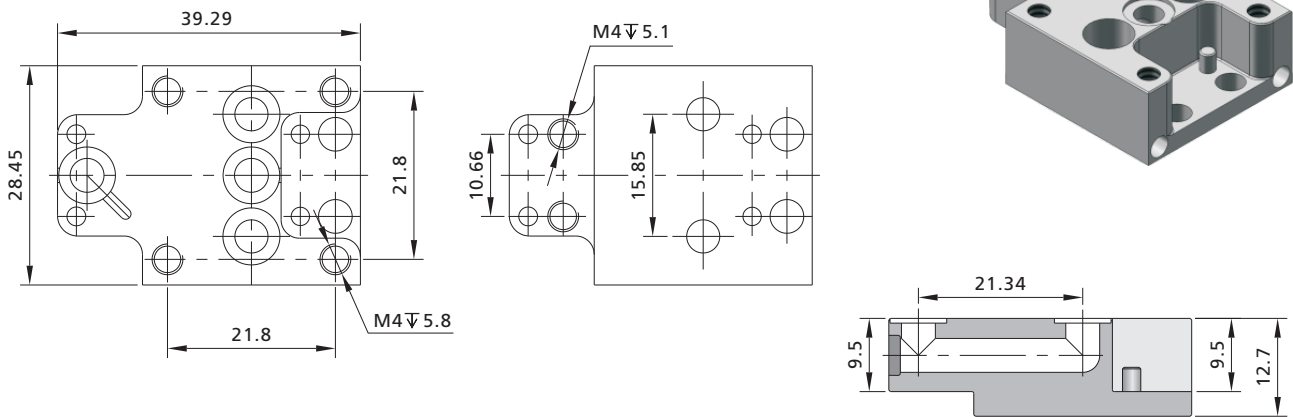
Ordering Number Description

12

Dimensions and Ordering Information

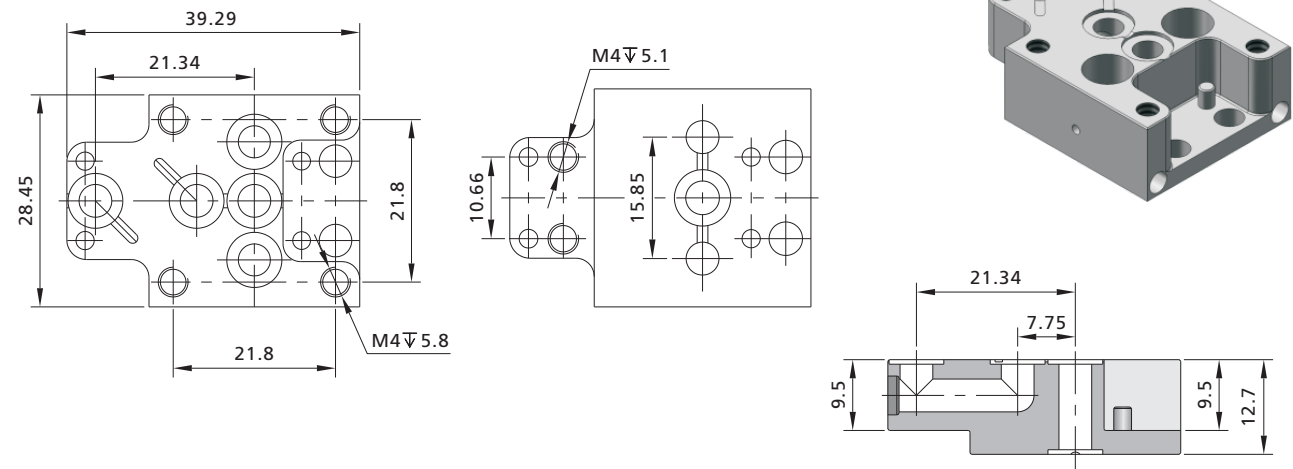
Standard Substrates

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



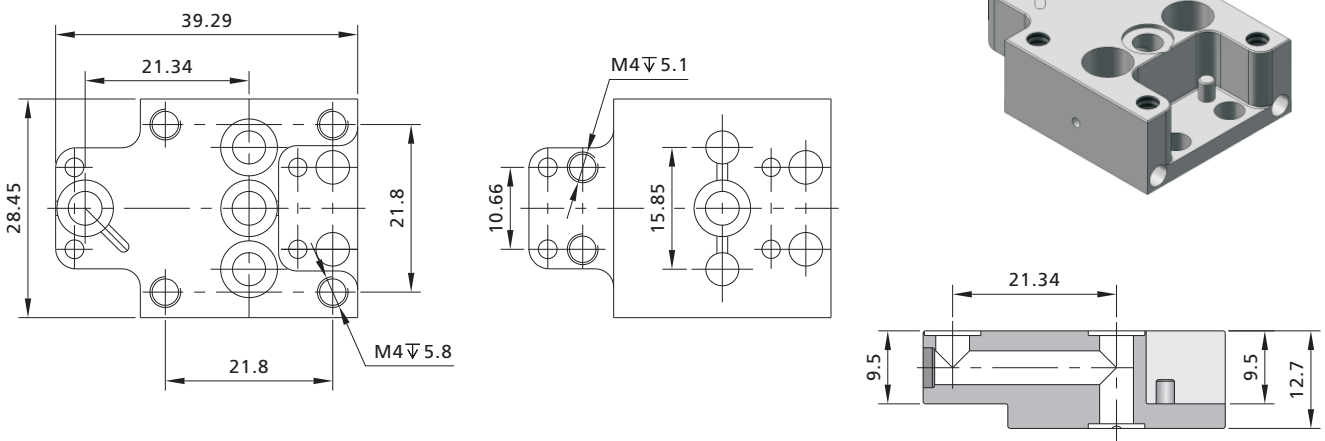
Standard Substrates

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



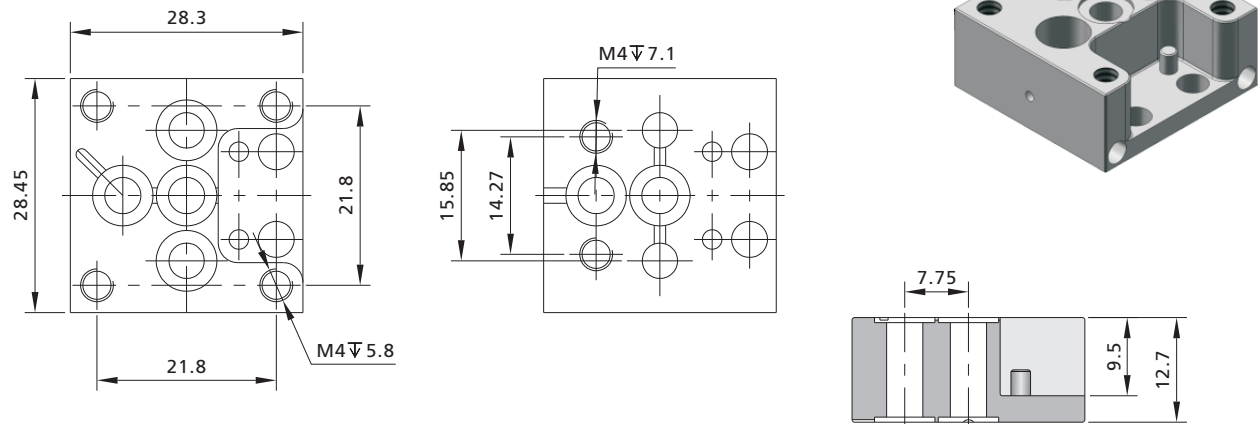
Standard Substrates

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



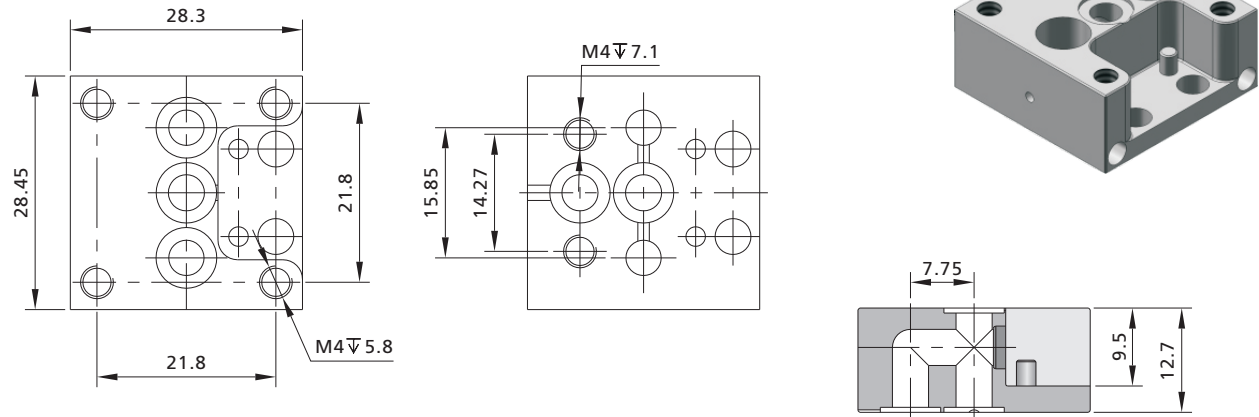
Standard Substrates

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



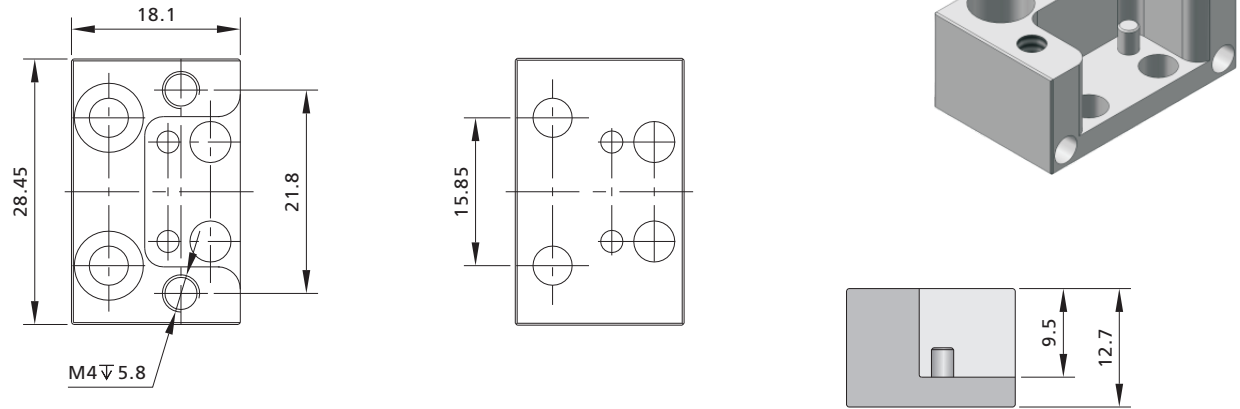
Standard Substrates

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



Standard Substrates

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

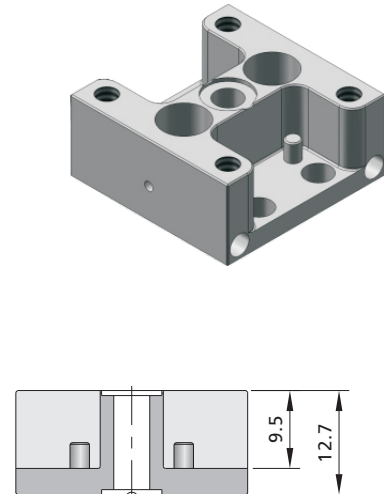
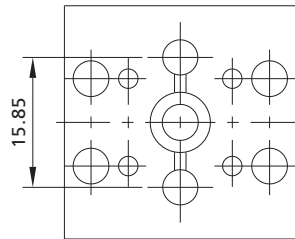
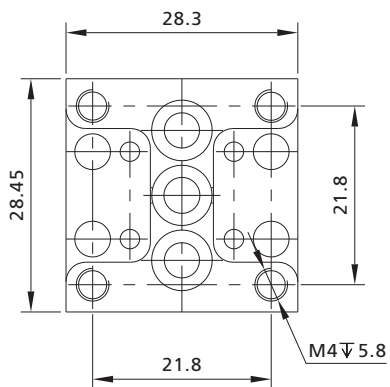


05 Integrated Gas System Substrates

Standard Substrates

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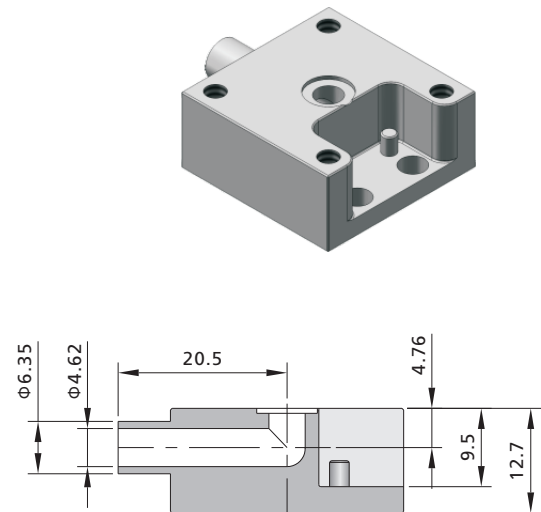
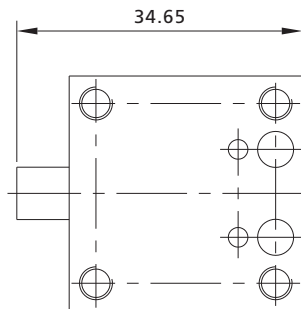
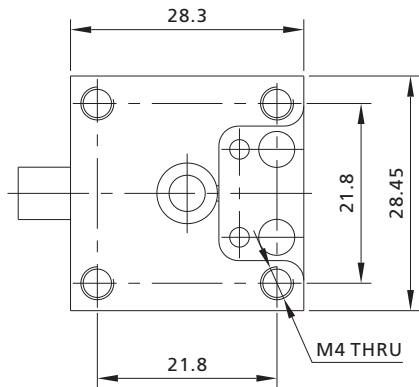
Unit: mm



Standard Substrates

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

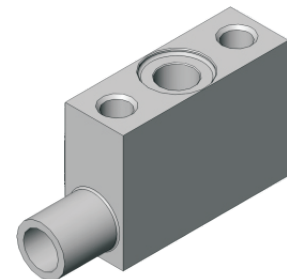
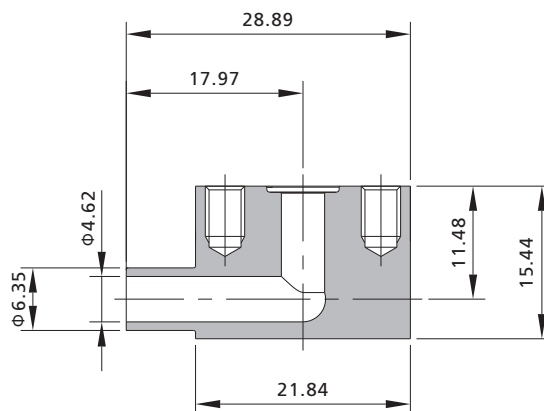
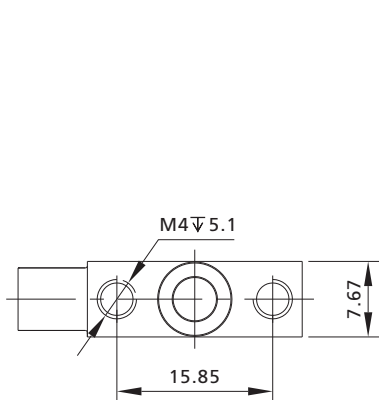
Unit: mm



1-Path Bypass Substrates

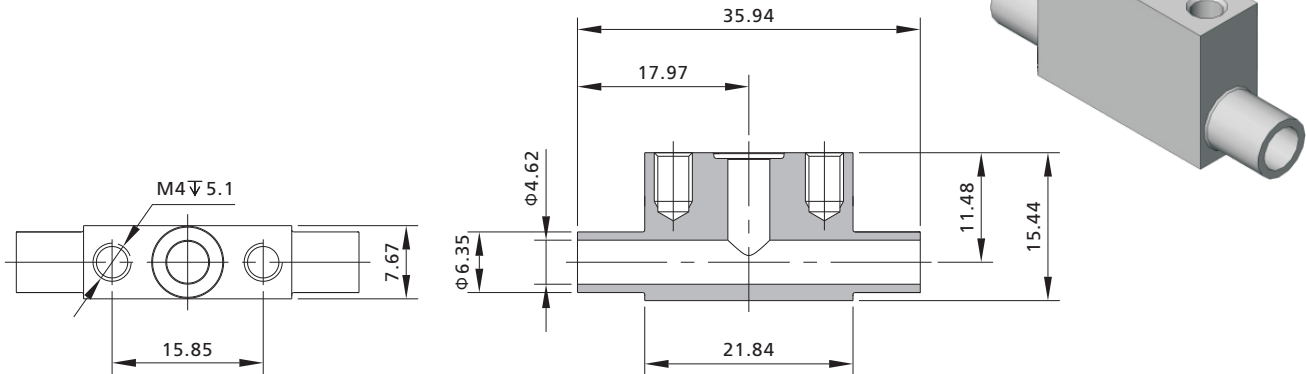
Basic Ordering Number: -ISB-CS11-S110-F3

Unit: mm



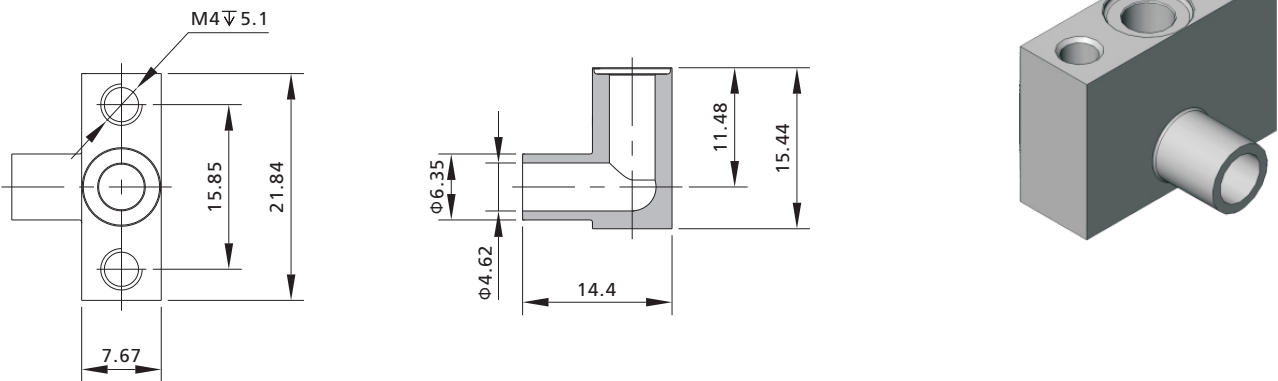
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Basic Ordering Number: -ISB-CS11-S120-F3
Unit: mm



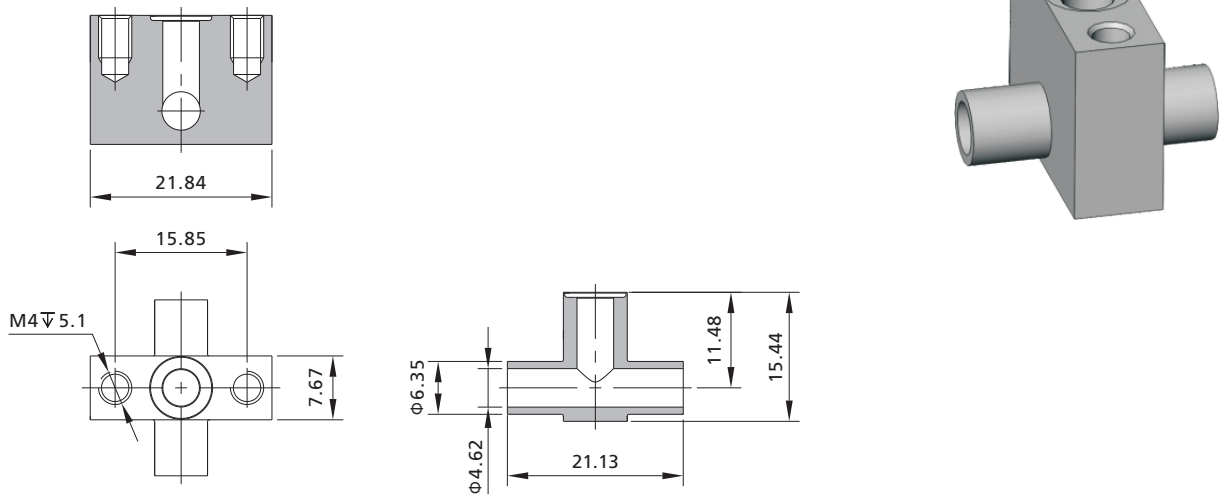
1-Path Bypass Substrates

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



1-Path Bypass Substrates

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

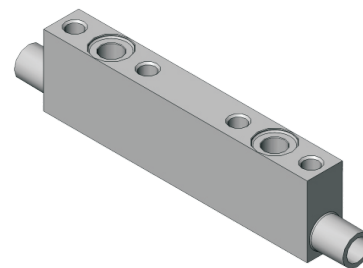
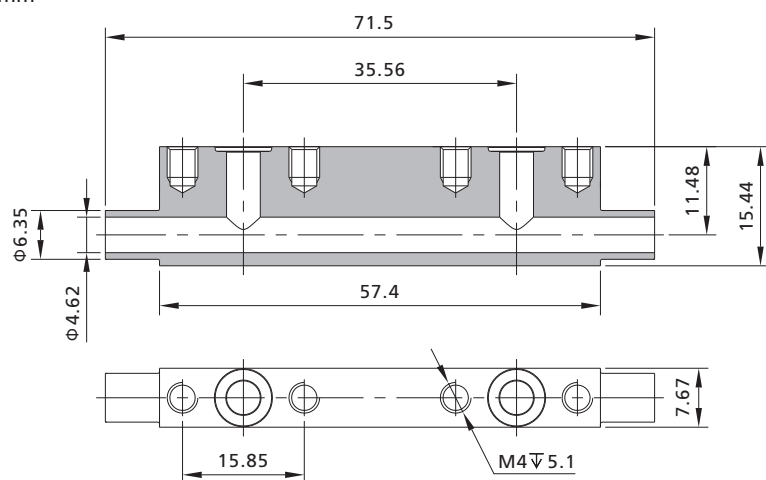


07 Integrated Gas System Substrates

1-Path Bypass Substrates

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

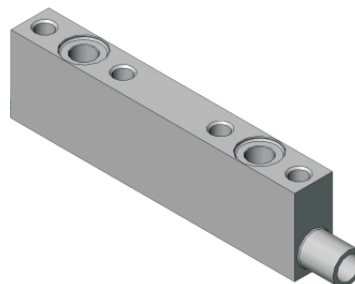
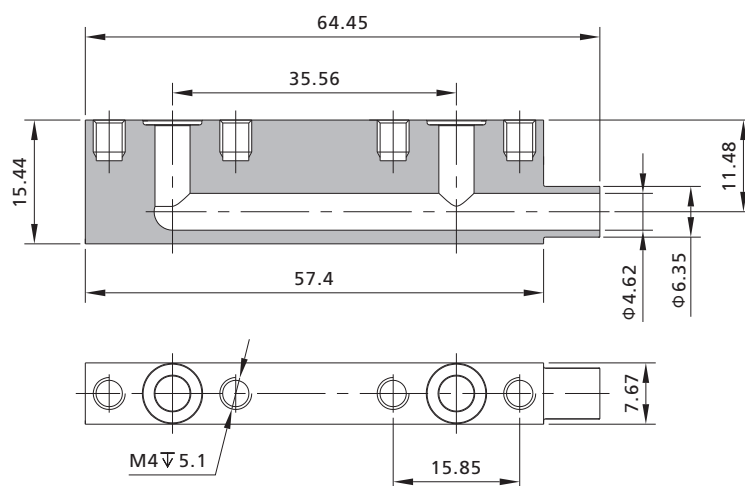
Unit: mm



1-Path Bypass Substrates

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

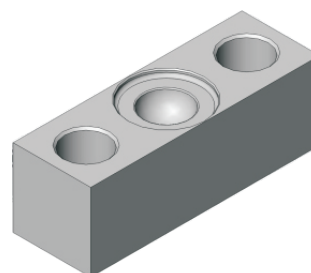
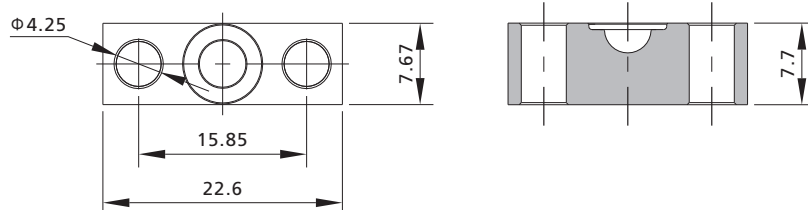
Unit: mm



Plugs

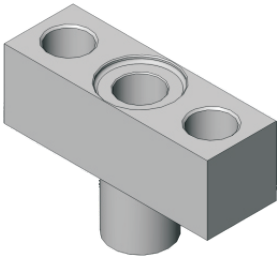
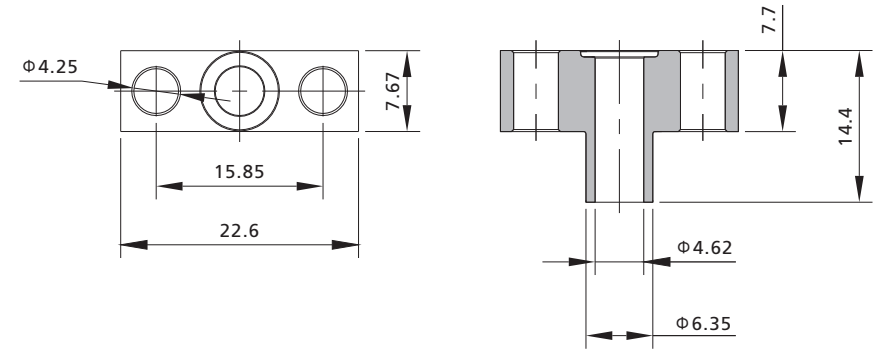
Basic Ordering Number: -IEC-CS11-S102-F3

Unit: mm



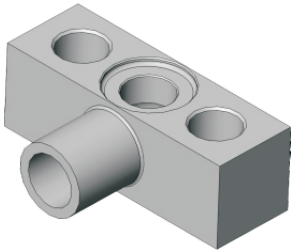
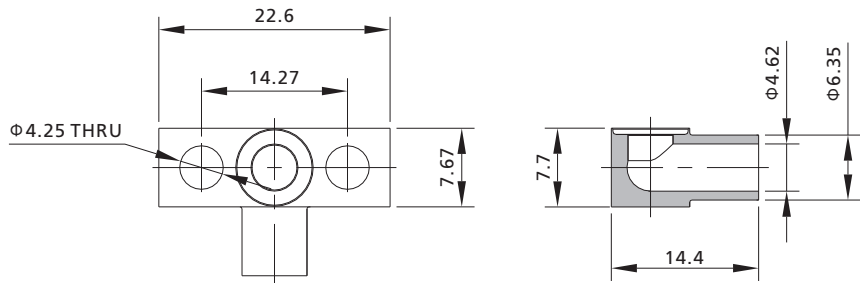
Plugs

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



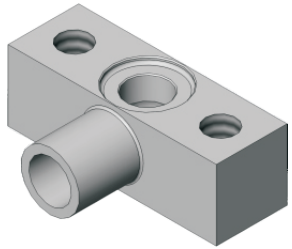
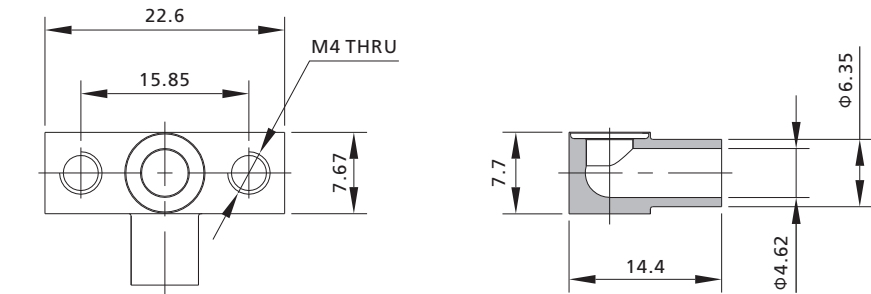
Plugs

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



Plugs

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

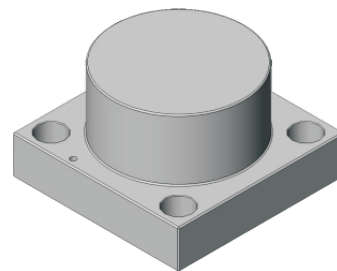
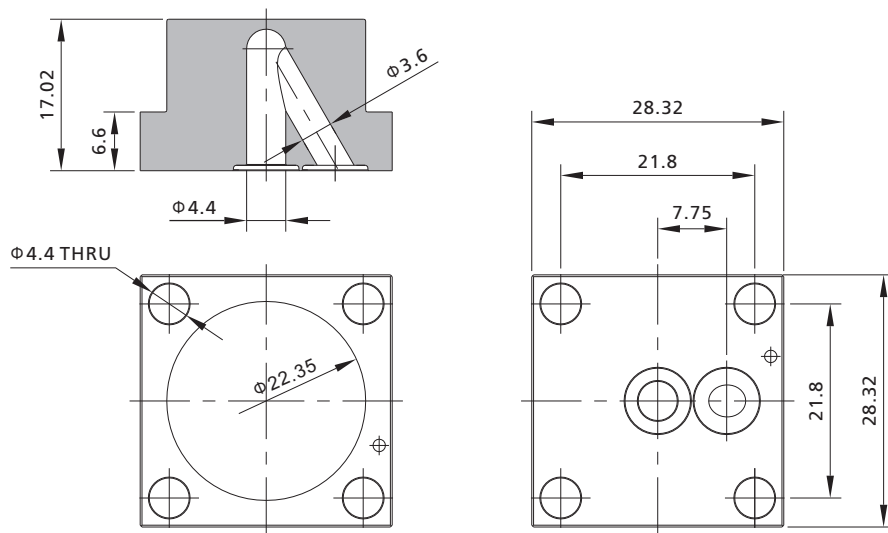


09 Integrated Gas System Substrates

Transition Substrates

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

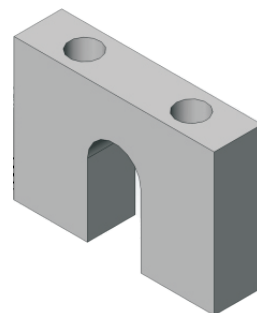
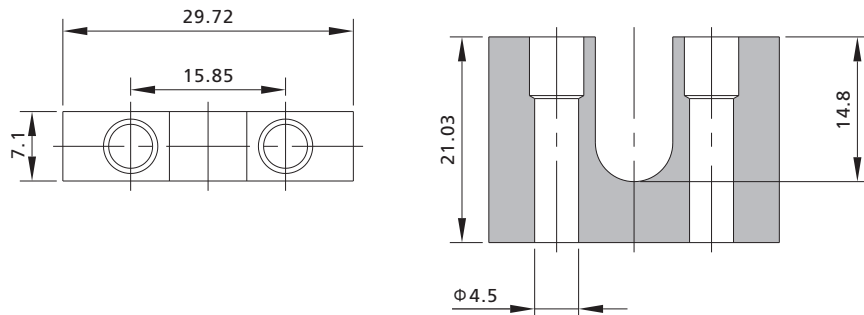
Unit: mm



Mount Blocks

Ordering Number: AL-IDK-S418-F3

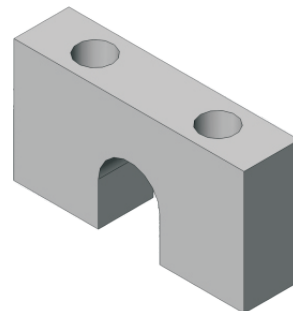
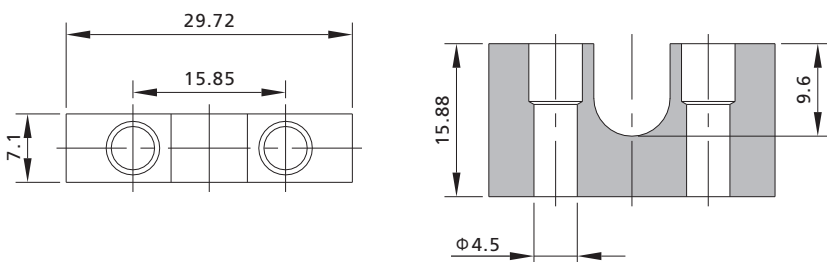
Unit: mm



Mount Blocks

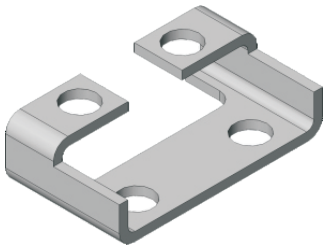
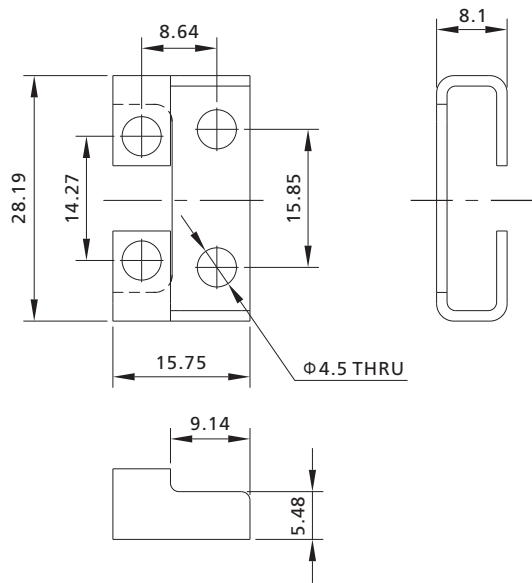
Ordering Number: AL-IDK-S416-F3

Unit: mm



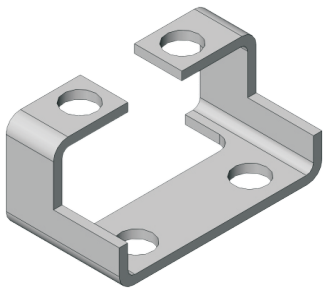
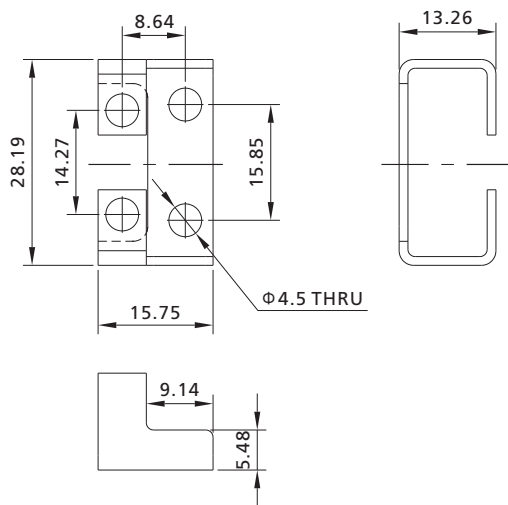
Brackets

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



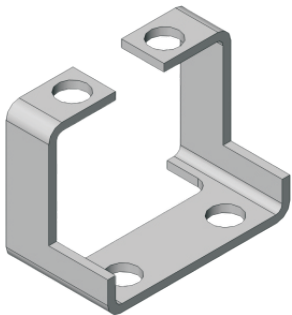
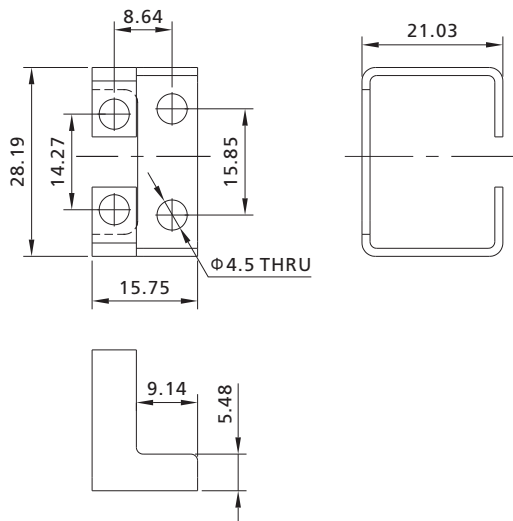
Brackets

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



Brackets

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

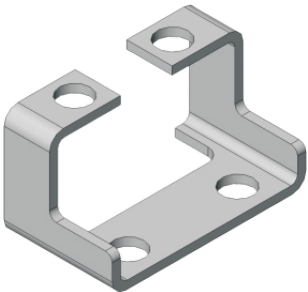
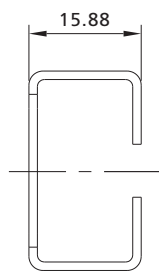
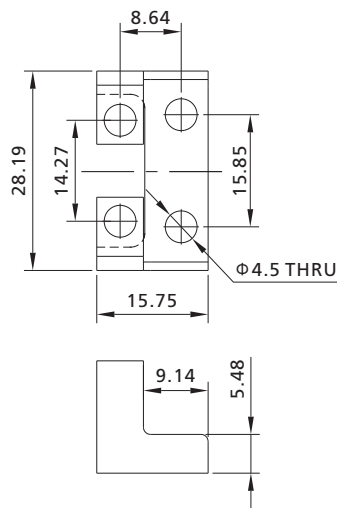


11 Integrated Gas System Substrates

Brackets

Ordering Number: S4-IZJ-C416-F3

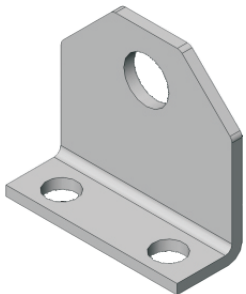
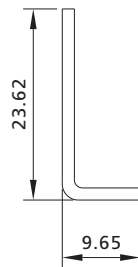
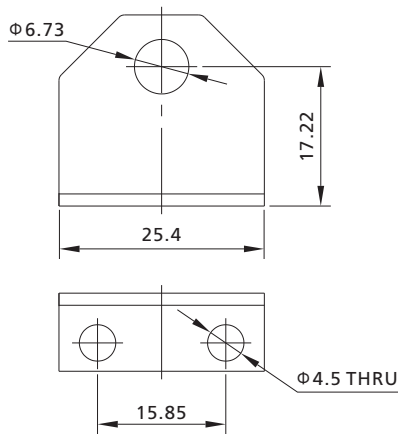
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Brackets

Ordering Number: S4-IZJ-L417-F3

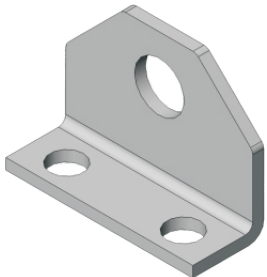
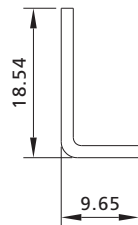
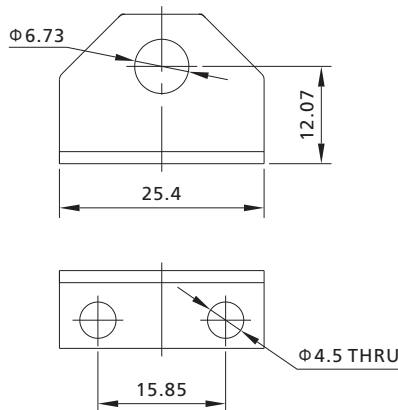
Unit: mm



Brackets

Ordering Number: S4-IZJ-L415-F3

Unit: mm



Ordering Number Description

6L - IVB - CS11 - M202 - F3

Body Material		Substrate Type		Port Type		Substrate Designator		Process Specification	
6L	316L SS	IVB	Standard Substrate	CS11	1.125" C-Seal	D200	S126	F3	FC-03
6LV	316L VAR	ISB	1-Path Bypass Substrate		Mount Block	D310	S102		
6LW	316L VIM-VAR	IEC	Plug		Bracket	D210	S112		
AL	Aluminum Alloy for Mount Block Only	ITC	Transition Substrate			M420	S120		
		IDK	Mount Block			M320	S121		
S4	304 SS for Bracket Only	IZJ	Bracket			M202	S200		
						M220	S418		
						M210	S416		
						F220	C413		
						F120	C415		
						F002	C418		
						B110	C416		
						F100	L417		
						S110	L415		
						S111			

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.

Integrated Gas System Substrates

ISW Series

Features

- ⦿ Tolerance compensation structure to facilitate less assembly tolerance and ensure system sealing performance to the greatest extent
- ⦿ Final assembly and packaging performed in ISO 4 cleanroom

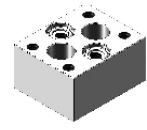
Technical Data

- ⦿ 1.125" W-Seal
- ⦿ Helium Leak Rate $\leq 1 \times 10^{-9}$ std cm³/s
- ⦿ FC-03 Ultra-high Purity Process Specification
- ⦿ Wetted Surface Roughness Less than Ra 5 μ in. (0.13 μ m)
For Pores with an L/D Greater than 10, the Roughness Less than Ra 32 μ in. (0.8 μ m)

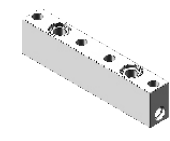


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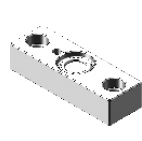
Standard Substrates -IVB

	02
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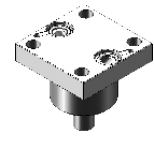
1-Path Bypass Substrates -ISB

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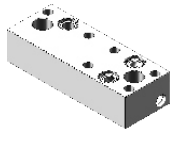
Plugs -IEC

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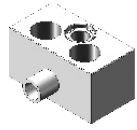
Transition Substrates -ITC

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2-Path Bypass Substrates -IDB

	09
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End Substrates -IEB

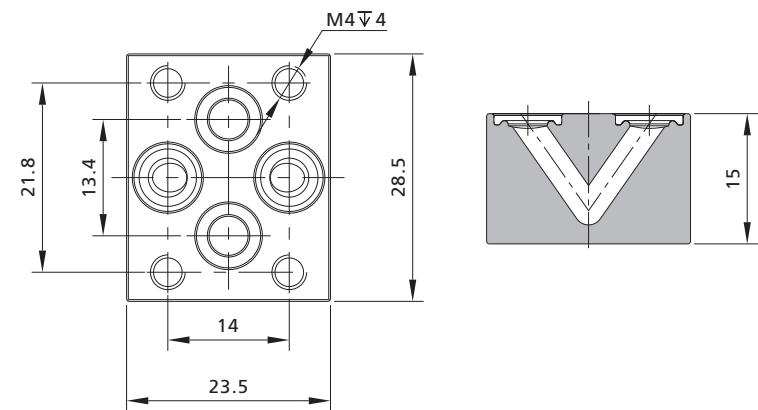
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Ordering Number Description	12
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Dimensions and Ordering Information

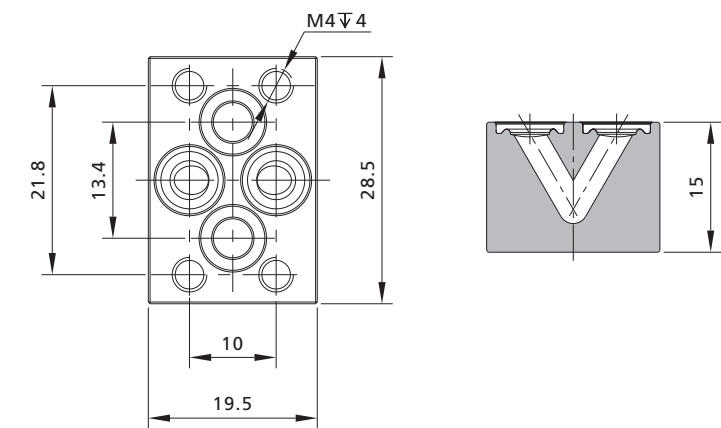
Standard Substrates

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



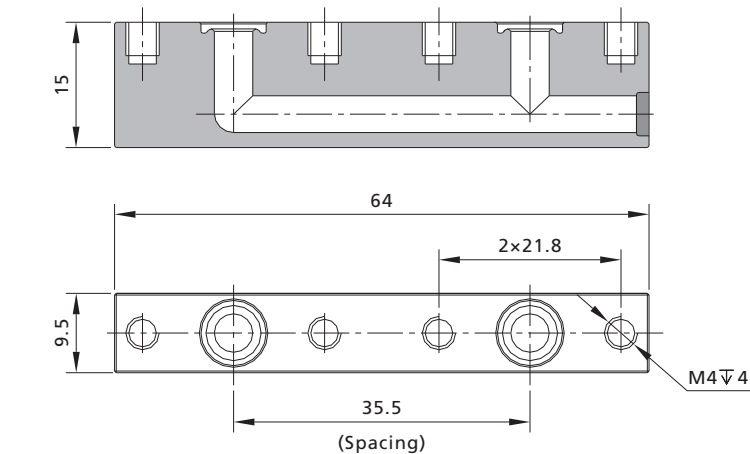
Standard Substrates

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



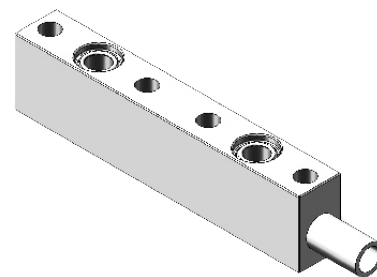
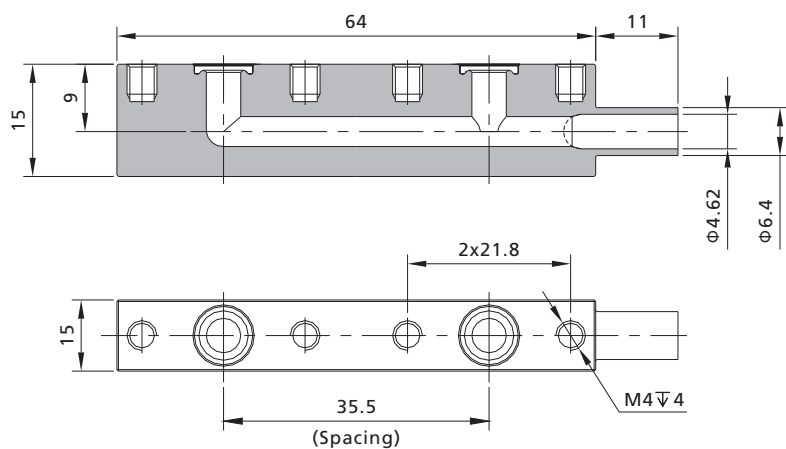
15 Integrated Gas System Substrates

1-Path Bypass Substrates

Spacing 35.5 mm Basic Ordering Number: -ISB-WS11-M210-F3

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

Unit: mm

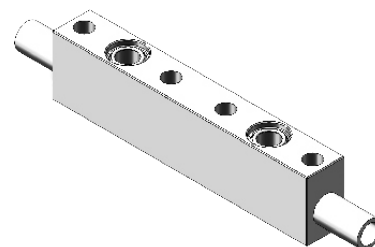
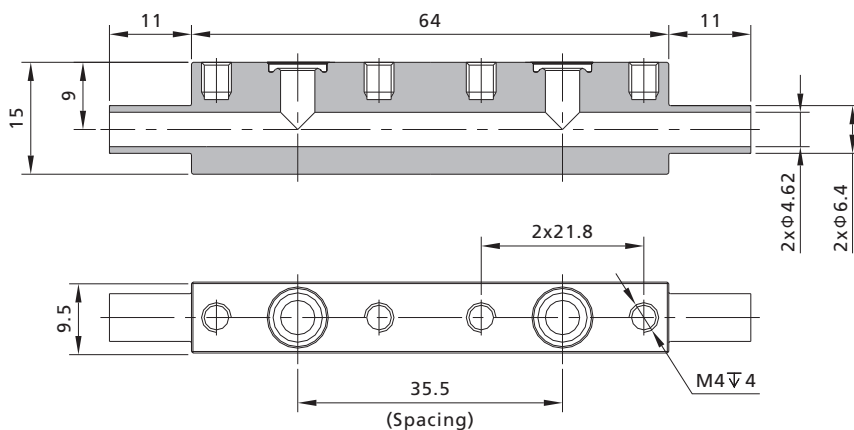


1-Path Bypass Substrates

Spacing 35.5 mm Basic Ordering Number: -ISB-WS11-M220-F3

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

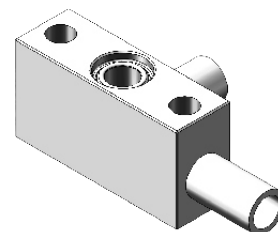
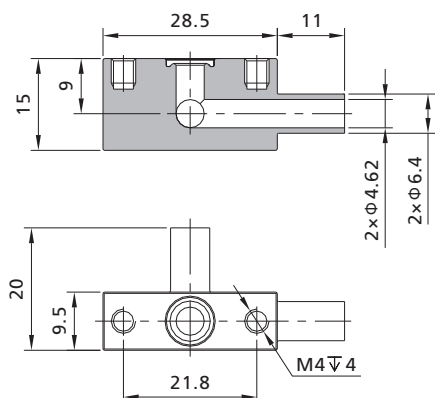
Unit: mm



1-Path Bypass Substrates

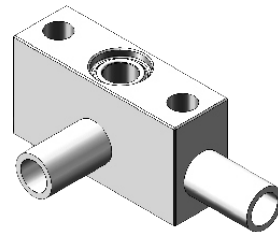
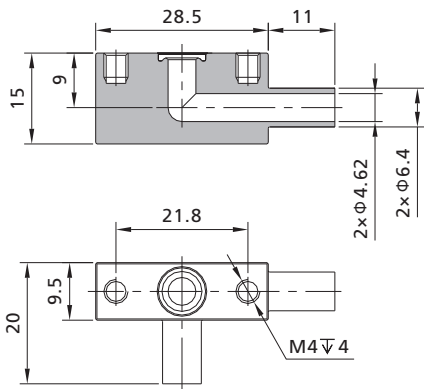
Basic Ordering Number: -ISB-WS11-S122-F3

Unit: mm



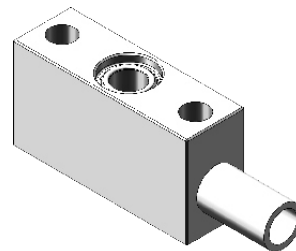
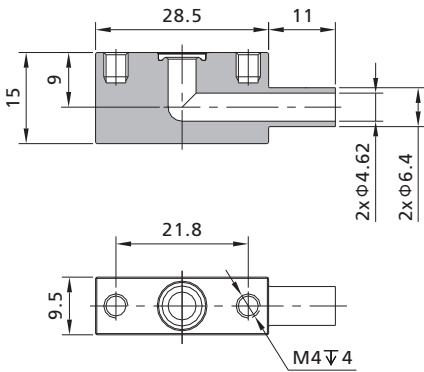
1-Path Bypass Substrates

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



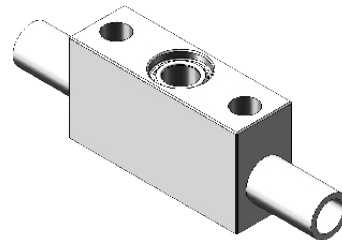
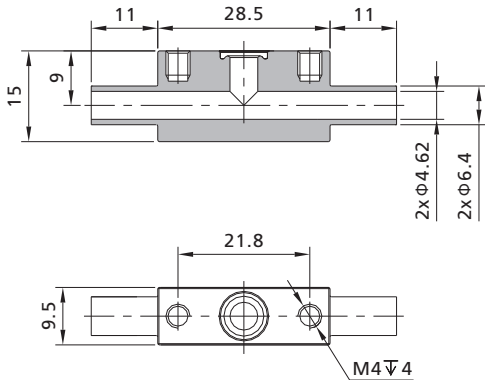
1-Path Bypass Substrates

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



1-Path Bypass Substrates

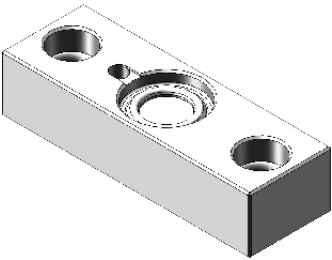
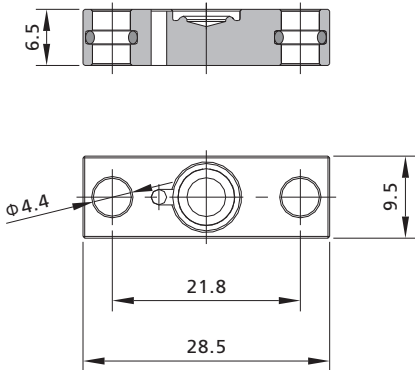
Basic Ordering Number: -ISB-WS11-S120-F3
Unit: mm



17 Integrated Gas System Substrates

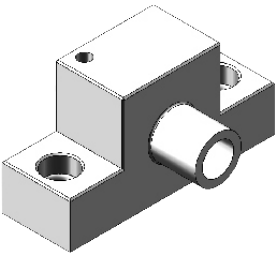
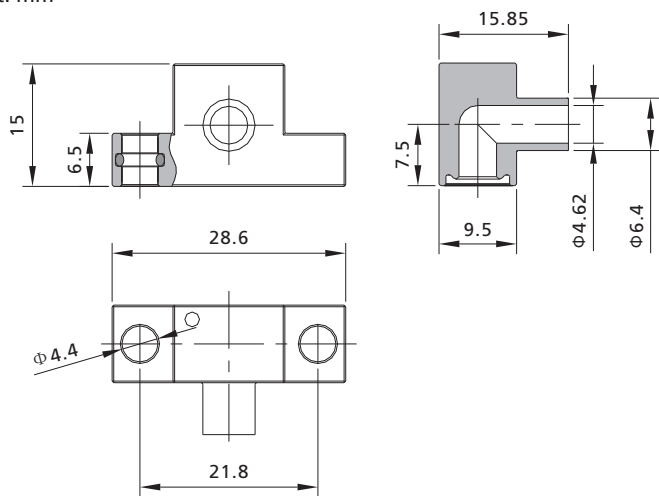
Plugs

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



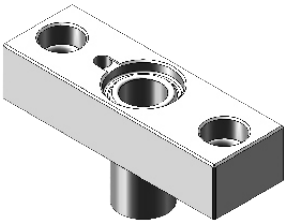
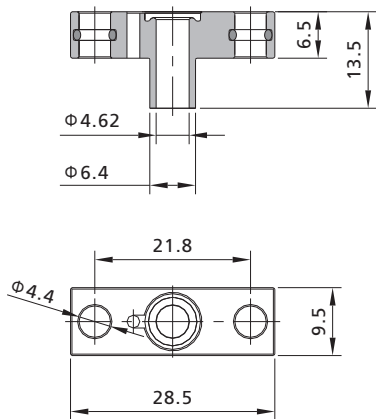
Plugs

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



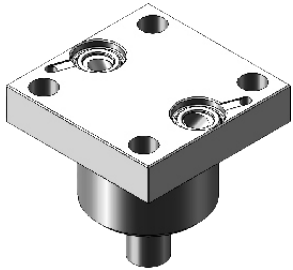
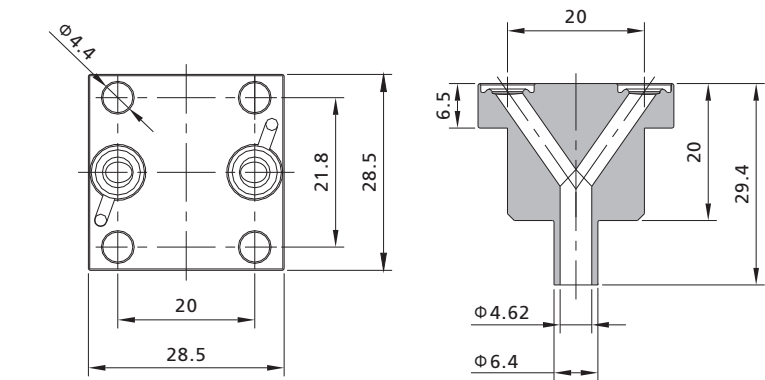
Plugs

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



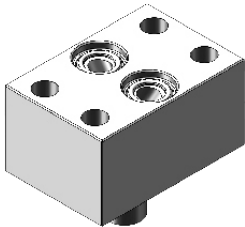
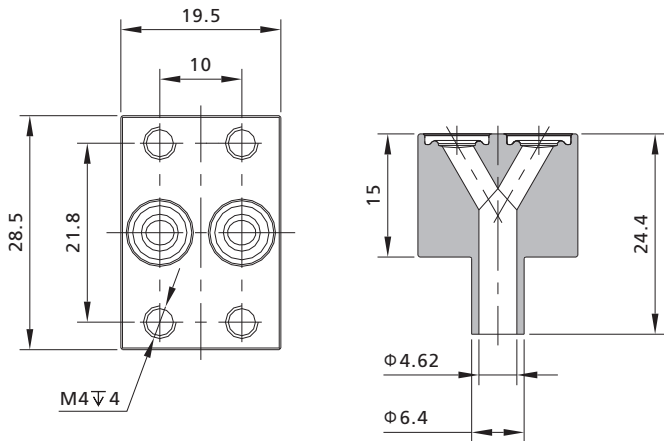
Transition Substrates

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



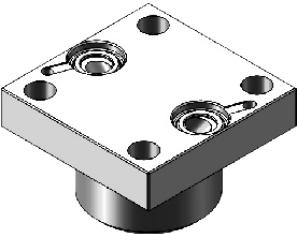
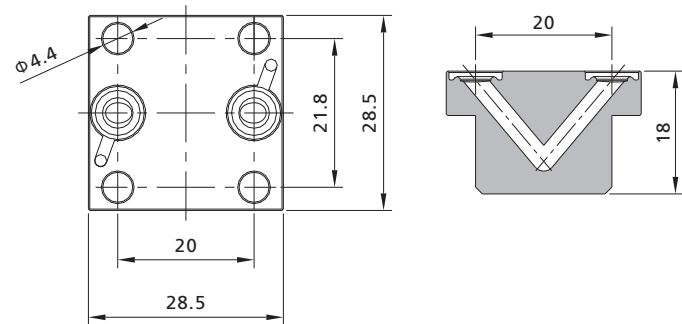
Transition Substrates

Basic Ordering Number: -ITC-WS11-N201-F3
Unit: mm



Transition Substrates

Basic Ordering Number: -ITC-WS11-S200-F3
Unit: mm



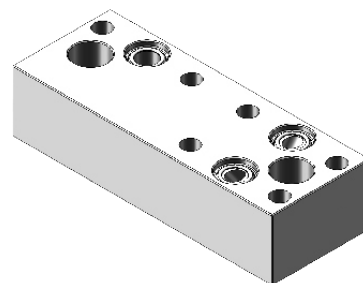
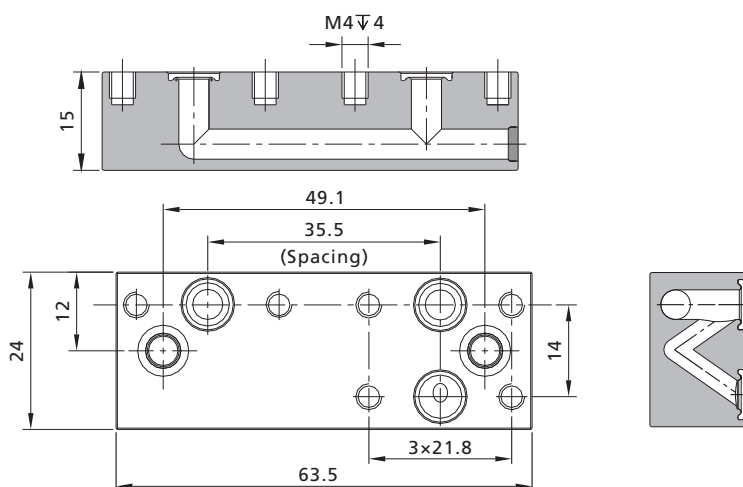
19 Integrated Gas System Substrates

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

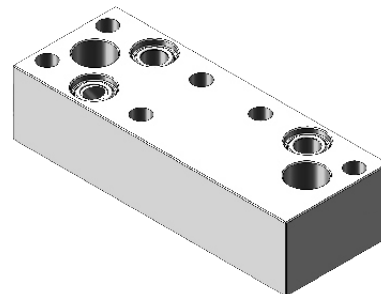
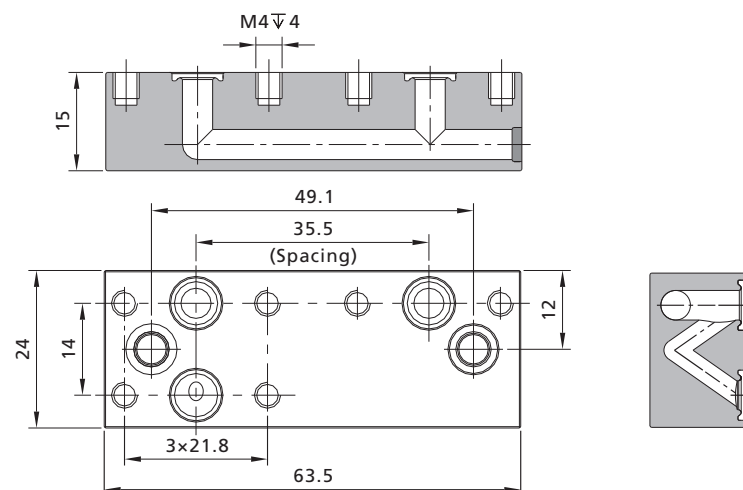


2-Path Bypass Substrates

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

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

Unit: mm

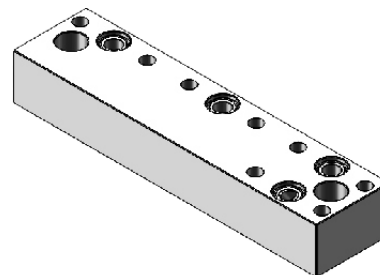
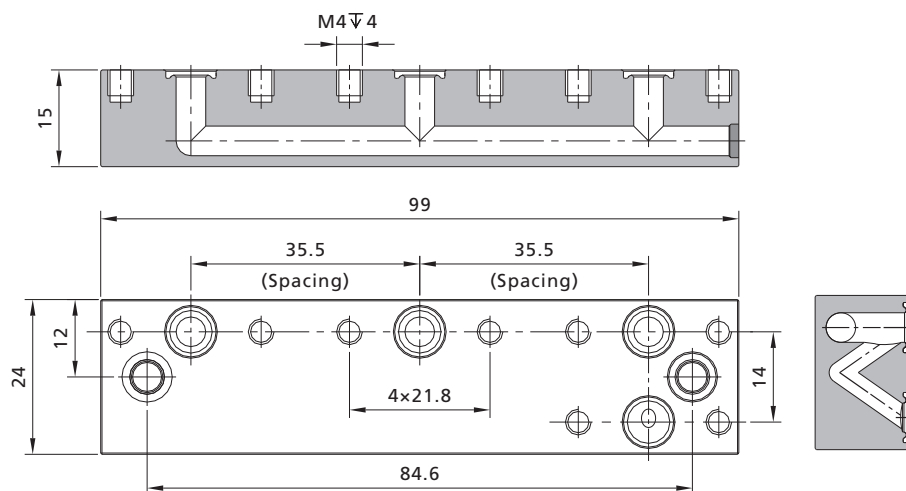


2-Path Bypass Substrates

Spacing 35.5 mm Basic Ordering Number: -IDB-WS11-M310-F3

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

Unit: mm

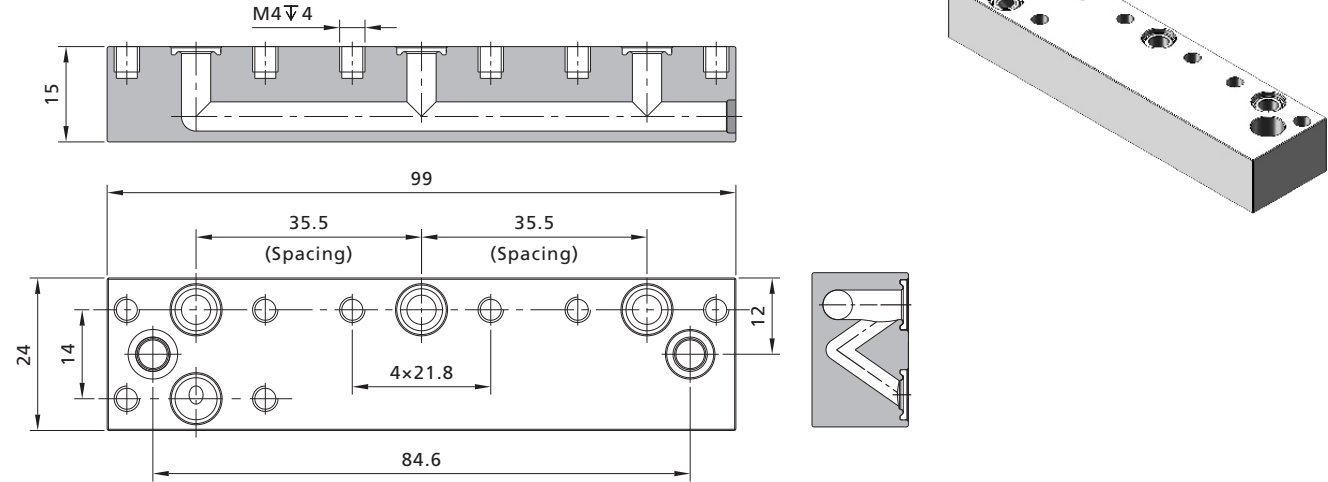


2-Path Bypass Substrates

Spacing 35.5 mm Basic Ordering Number: -IDB-WS11-M320-F3

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

Unit: mm



End Substrates

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

Unit: mm



Ordering Number Description

