

# UHP精密气体模块

Base Block 系列



OUR PEOPLE MAKE THE DIFFERENCE

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## 公司介绍 Company Profile

苏州迈格诺科洁净材料有限公司自2012年成立以来，一直坚持以超纯不锈钢为母材，专注于各类超高洁净系统和精密零部件的设计、加工、制造及销售。我们致力于为客户提供高质量、成本效益兼备的标准件及定制化产品，同时提供卓越的全程供应链管理服务。

公司配备了完整的生产线，涵盖精密机械加工、精密焊接、电解抛光、化学清洗以及精密测量等关键流程。拥有通过第三方认证的1000 m<sup>2</sup>百级洁净间，可满足半导体行业超纯气体管路及气体盘面和精密零组件的焊接、清洗、组装测试及无尘包装需求。此外我们的各类加工及检测设备均来自国际一线品牌，确保产质量的卓越性。

公司已通过ISO9001质量管理体系认证、ISO 3834焊接质量体系认证 TUV PED 4.3压力管件认证、美国3A卫生级管件认证。我们的团队汇聚了设计、工艺、制造加工、质量与制程控制以及供应商管理等多领域的专业人才。他们技术精湛、经验丰富且敬业踏实，在业界赢得了良好的信誉与口碑。

迈格诺科始终坚持以客户为导向，广泛服务于人工智能、生物制药、食品饮料、精密化工、太阳能光伏、半导体芯片、平板显示以及科研、航空航天等多元化产业。凭借深厚的行业经验和专业知识，我们深刻理解这些行业的严苛要求，并能提供成熟的解决方案。在系统洁净度、焊接产品形位精度等关键领域，我们拥有一套完善的工艺方案和操作标准。迈格诺科承诺，在客户的严格要求下，我们将提供最优的解决方案，确保完美实现客户的目标需求。

Since establishment in 2012, Suzhou Magnox Hygienic Materials Co.,Ltd has been adhering to using ultra-pure stainless steel as the base material and focusing on the design, processing, manufacturing and sales of various ultra-high cleanliness systems and precision parts. We are committed to providing customers with high-quality, cost-effective standard parts and customized products, as well as excellent full-process supply chain management services.

Our company is equipped with a complete production line covering key processes such as precision machining, precision welding, electrolytic polishing, chemical cleaning and precision measurement. It has a 1000m<sup>2</sup> class-100 clean room certified by a third party, which can meet the welding, cleaning, assembly testing and dust-free packaging needs of ultra-pure gas pipelines, gas panels and precision components in the semiconductor industry. In addition, all kinds of our processing and testing equipment are from international first-line brands to ensure the excellence of product quality.

Our company has passed ISO9001 quality management system certification, ISO3834 welding quality system certification, TUV PED4.3 pressure pipe fitting certification and American 3A hygienic pipe fitting certification. Our team brings together professionals in multiple fields such as design, process, manufacturing and processing, quality and process control, and supplier management. They are highly skilled, experienced, dedicated and reliable, and have won a good reputation and word-of-mouth in the industry.

Magnox always adheres to customer orientation and provides extensive services to diversified industries such as artificial intelligence, biopharmaceuticals, food and beverage, precision chemicals, solar photovoltaics, semiconductor chips, flat panel displays, scientific research, aerospace, etc. With profound industry experience and professional knowledge, we have a deep understanding of the stringent requirements of these industries and can provide mature solutions. We have a comprehensive process plan and operating standards in key areas such as system cleanliness and welding product positional accuracy. Magnox promises to provide the best solutions under the strict requirements of our customers, ensuring the perfect achievement of their target needs.

## 阀体阀座

- ◎ 金属对金属密封，从真空到高压范围内无泄漏
- ◎ 涵盖膜片阀/减压器/钢瓶阀等各类阀体
- ◎ 弯头通道圆弧过度，确保流体平稳流动
- ◎ 流道无刀纹、毛刺等缺陷
- ◎ 氦气测试泄露率 $<1 \times 10^{-9} \text{mbar} \cdot \text{L/s}$
- ◎ 标准粗糙度BA级为 $\text{Ra}0.25 \mu\text{m}$  ( $10 \mu\text{in}$ )  
EP级为 $\text{Ra}0.13 \mu\text{m}$  ( $\mu\text{in}$ )或更低



## MFC基座

- ◎ 符合最严格的国际标准生产制造
- ◎ 内部结构相当简单，完全零死角结构
- ◎ 流道无刀纹、水波纹、毛刺等缺陷
- ◎ 弯头通道圆弧过度，确保流体平稳流动
- ◎ 标准粗糙度BA级为 $\text{Ra}0.25 \mu\text{m}$  ( $10 \mu\text{in}$ )或更低



## IGS模组

- ◎ IGS模组的使用可以让控制面板缩小为原有的1/3
- ◎ 气密部位采用C-seal或W-seal，使气密部位与承受外力部分分离
- ◎ 各组件以气密部位为中心，采用水平系统的紧密施工结构
- ◎ 所以零组件皆可从上方拆装，利用特殊工具可极大缩短施工时间
- ◎ 每个气密部位上方都有测漏孔，可透过氦质谱仪准确的检查泄漏情况
- ◎ 利用标准化零组件阵容及少数产品种类即可达到高度自由设计目标



EF 62206

18

40W

U

模块型号

模块尺寸

材质

处理工艺

代码	表述	描述
CSC	中间连接块 Substrate Connectors	两孔公母连接块 单孔单底通双母连接块 三孔单底通公母连接块 两孔单底通母连接块 四孔双底通终端公块 双孔双底通终端母块 单孔双底通终端母块 单孔单支管终端母块 三孔双底通终端公块 MFC双孔公连接块 MFC母连接块 MFC单孔单支管连接块 MFC单孔双支管两通连接块 单孔单支管三通连接块 双孔单支管三通连接块 单孔双支管三通连接块 双孔双支管四通连接块 三孔双支管五通连接块 单孔侧支管两通连接块 单孔双侧支管三通连接块 单孔双支管三通连接块 单孔双支管三通连接块 螺纹直角弯头法兰 直通接管法兰 公制螺牙直角法兰 单孔堵帽 双孔两通堵帽 基板支撑块 歧管支撑块 支撑架0810 支撑架2103 支撑架1326 支撑架1588 支撑架1854 支撑架2362 单孔垫片 双孔垫片 三孔垫片
CEF	终端连接块 End Fittings	
CMC	MFC连接块 MFC Connectors	
CMF	歧管连接块 Manifold Fittings	
CFF	法兰连接块 Flange Fittings	
CCB	堵帽 Cap base	
CMB	支撑块 Mount Block	
CSB	支撑架 Support Bracket	
CCS	密封垫片 C-Seal	

代码	尺寸
18	1.125
24	1.5
24H	1.5HF

代码	材质
40	SUS316L
40V	SUS316L VAR
40W	SUS316L VIM-VAR
AL	6061 (支撑块)
10	SUS304 (支撑架)
10	SUS304 (支撑架)

代码	工艺
S	标准处理
H	高洁净处理
U	超高洁净处理

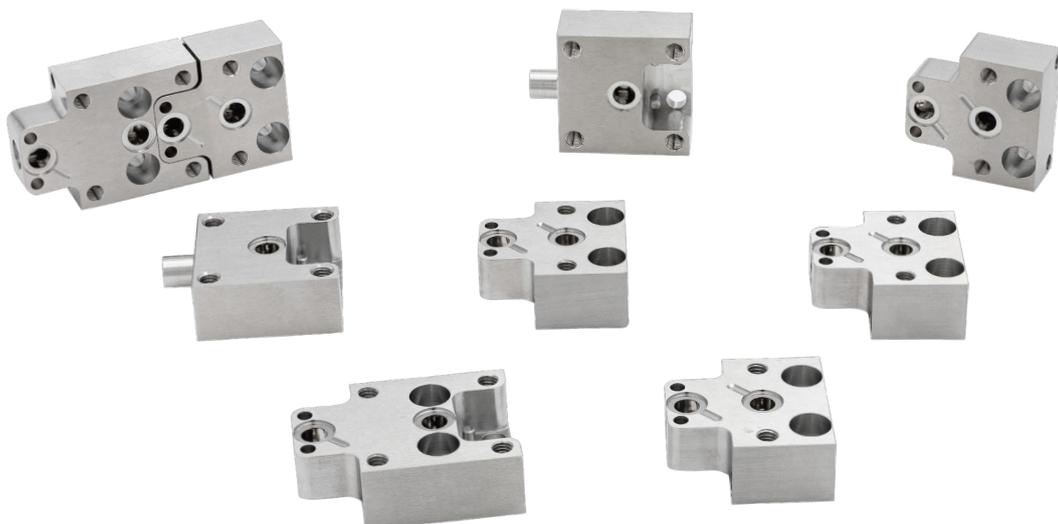
## Base Block标准模块供气系统

Base block底座为一体化气体分配系统技术提供了一种方法在更紧凑的气体面板上构建气体输送系统，利用平面密封技术。每个表面安装组件遵循SEMI标准。可根据需求形成不同的配置形式。维护时，仅需在面板上方进行操作，简单方便。更小的空间占用，与传统面板组装工艺相比:Base Block结构技术空间占比只有传统结构的30%。此外，还可按照图纸，提供非标定制服务。



## 技术特征

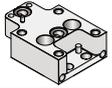
- ◎ 材质SUS316L不锈钢,满足SEMI F20标准
- ◎ 多种流道形式适用于各种模块化系统搭建需求
- ◎ 在百级洁净室完成最终组装和包装
- ◎ 1.125" C-Seal
- ◎ 氦气泄漏率 $\leq 1 \times 10^{-9}$  std cm<sup>3</sup>/s
- ◎ 内部经过EP工艺处理后,内表面粗糙度Ra $\leq 0.13\mu\text{m}$ ,满足超高纯度气体系统要求。
- ◎ 执行标准 <sup>(1)</sup>SEMI F20-0815  
<sup>(2)</sup>SEMI F19-0706<sup>E</sup> (RO917)



## 目录

### C-Seal 系列

CSC 中间连接块



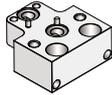
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CEF 终端连接块



07-08

CMC 连接块



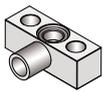
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CMF 歧管连接块



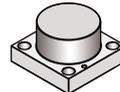
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CFF 法兰连接块



13

CCB 堵帽



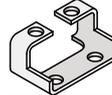
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CMB 支撑块



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CSB 支撑架



16-17

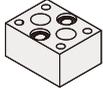
CCS 密封垫片



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### W-Seal 系列

WBB 标准基块



20

WBC 旁通连接



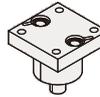
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WCB 堵帽



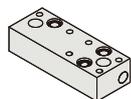
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WTB 过渡基块



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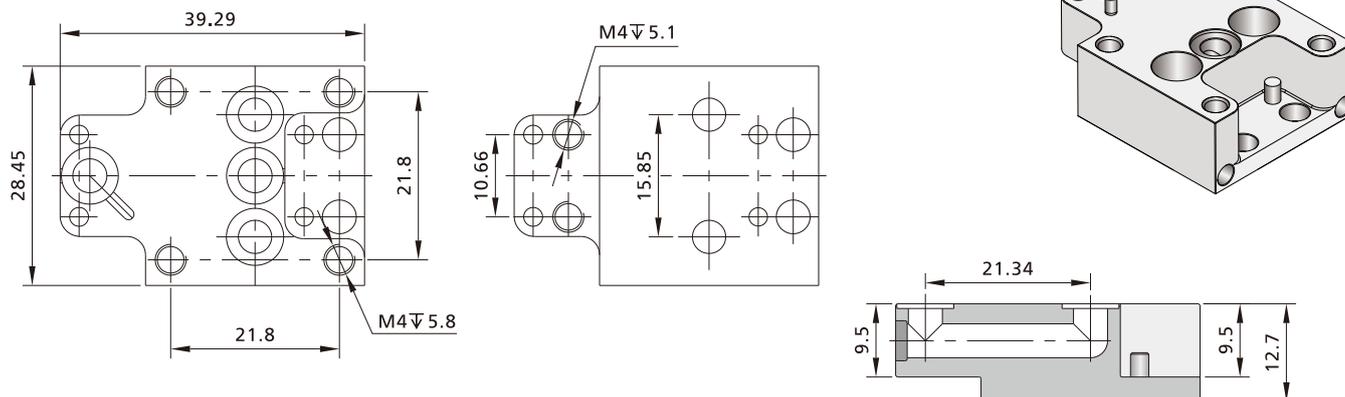
WEB 末端基块



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## 两孔公母连接块

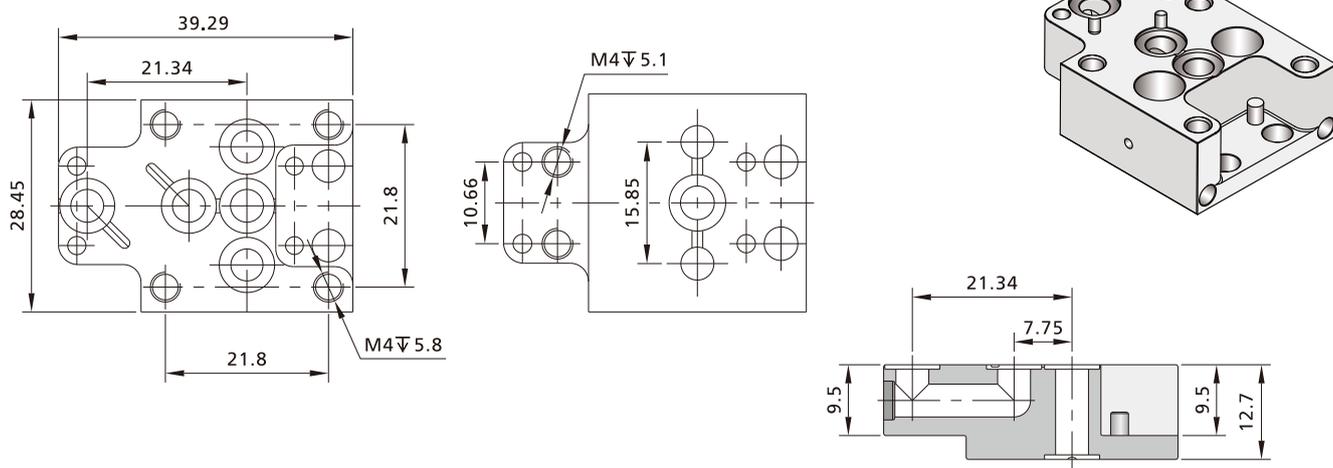
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All dimensions in mm

## 三孔单底通公母连接块

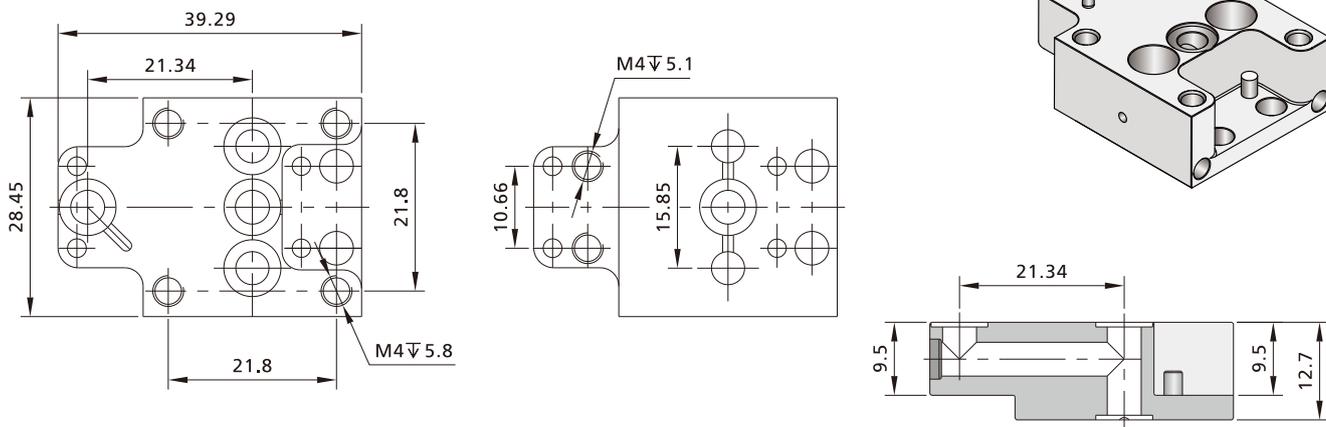
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All dimensions in mm

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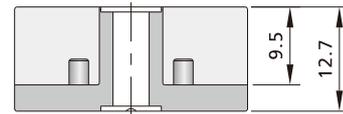
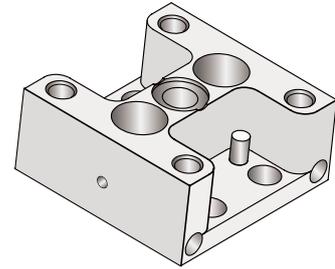
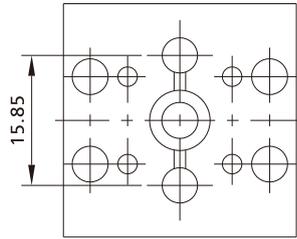
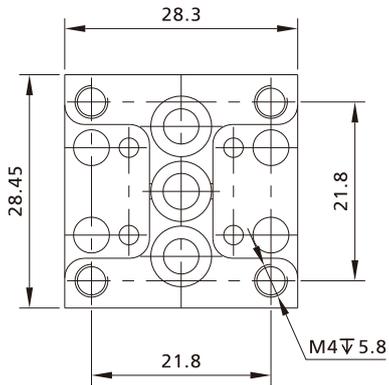
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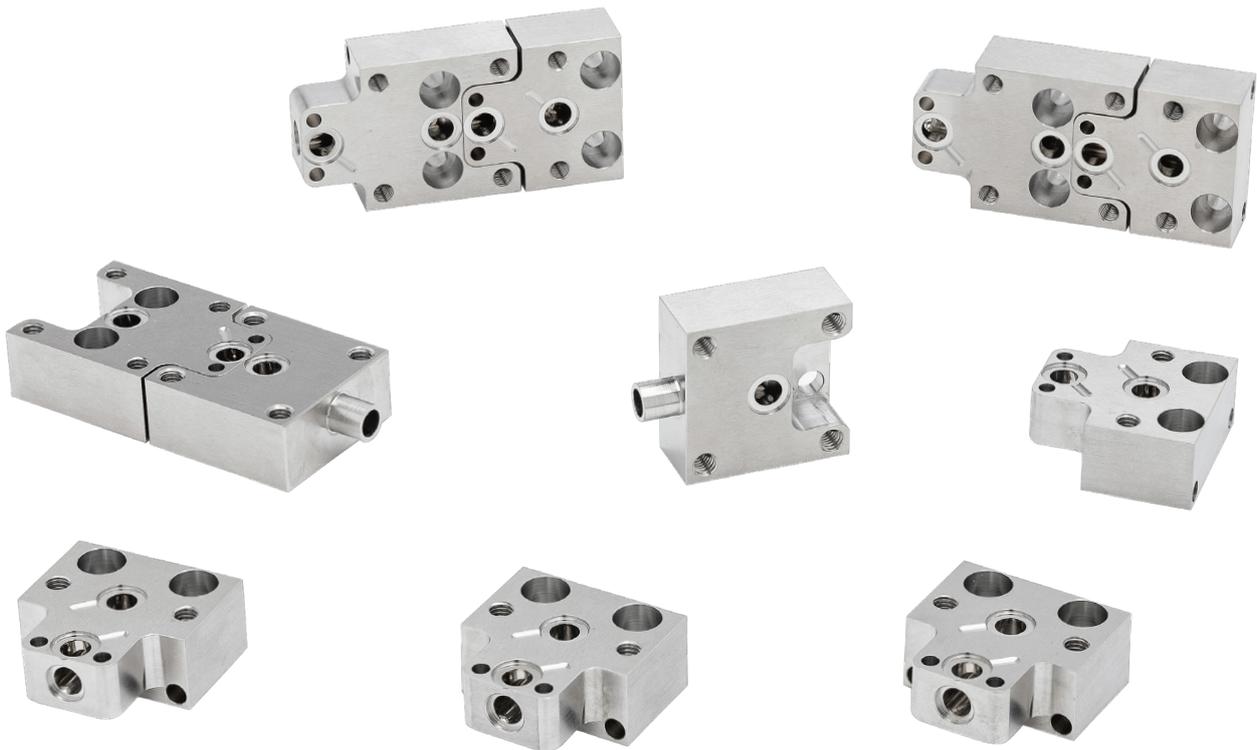
All dimensions in mm

单孔单底通双母连接块

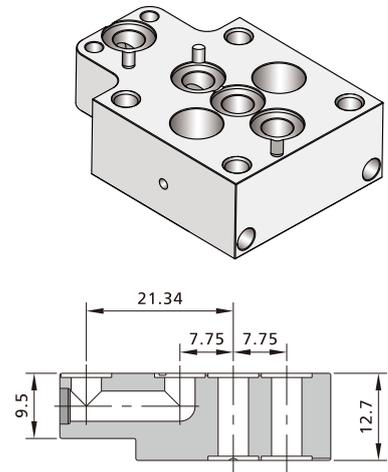
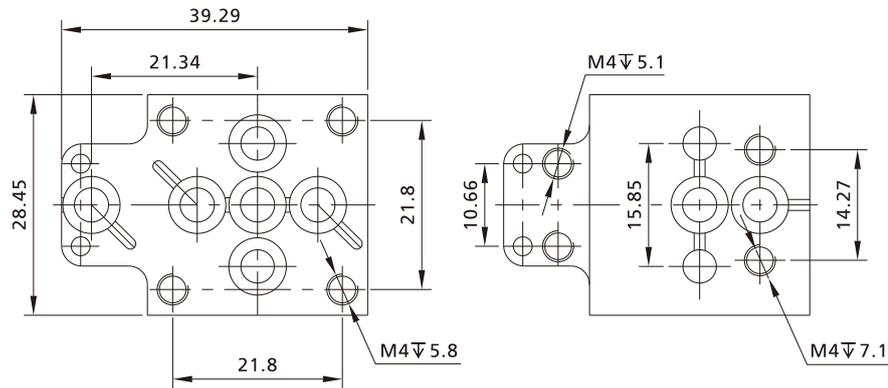
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All dimensions in mm

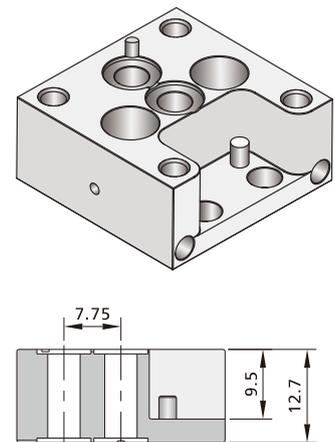
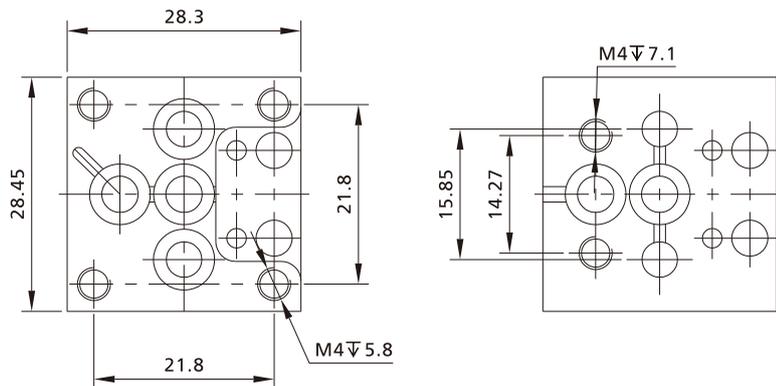


四孔双底通终端公块  
Part Number:62208



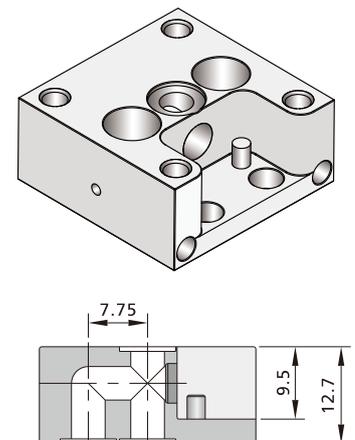
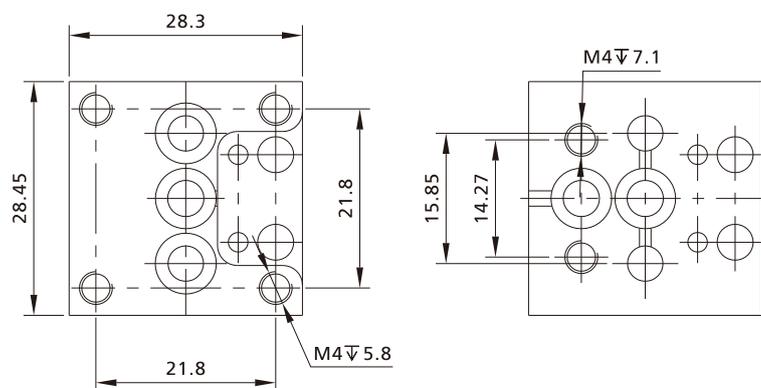
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双孔底通终端母块  
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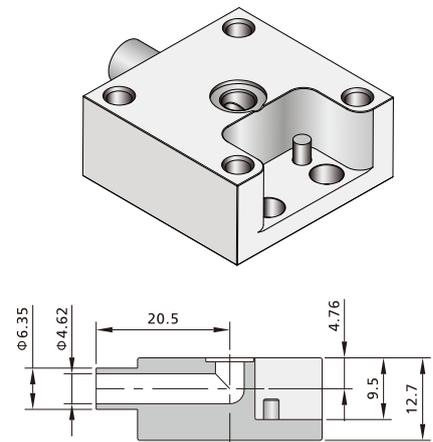
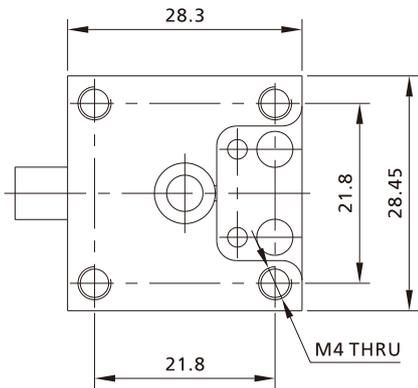
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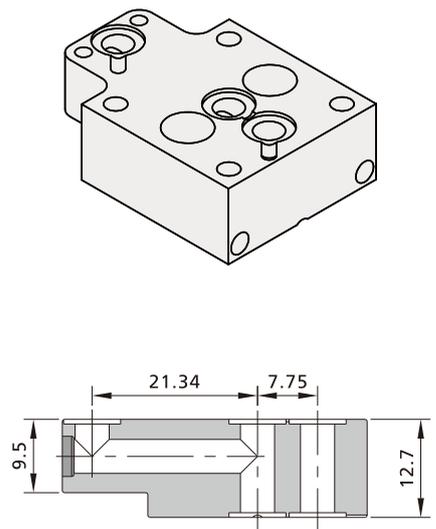
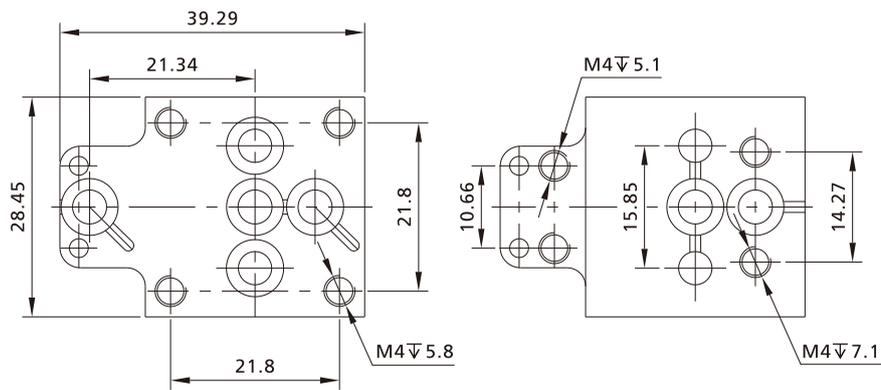
All dimensions in mm

单孔单支管终端母块  
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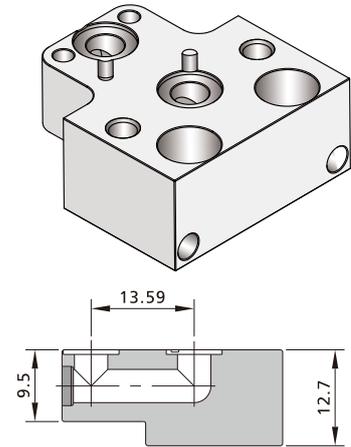
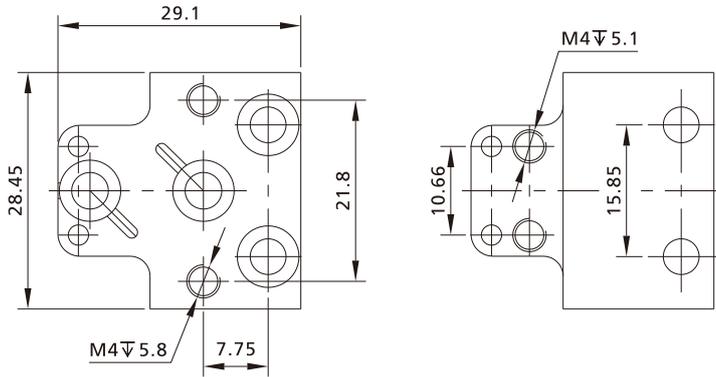
All dimensions in mm

三孔双底通终端公块  
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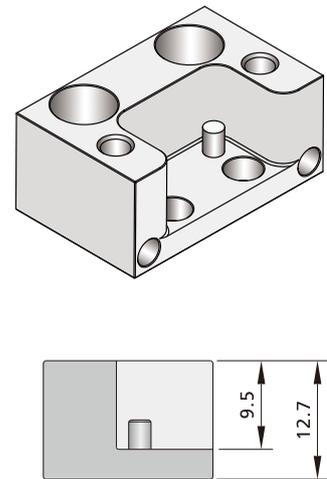
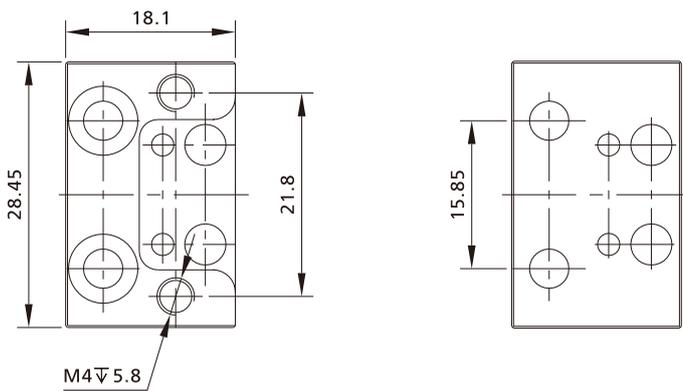
All dimensions in mm

MFC 双孔公连接块  
Part Number:62213



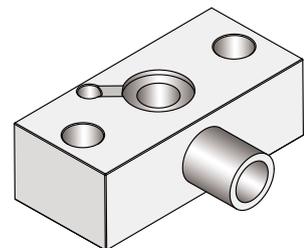
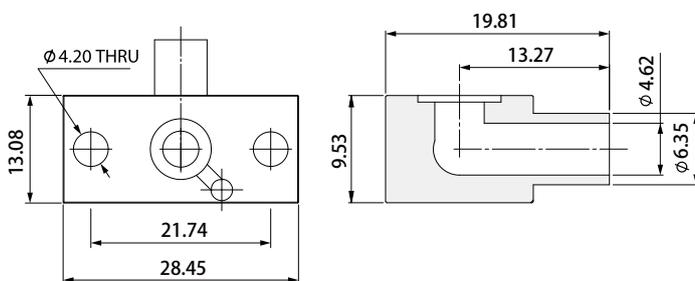
All dimensions in mm

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Part Number:62214



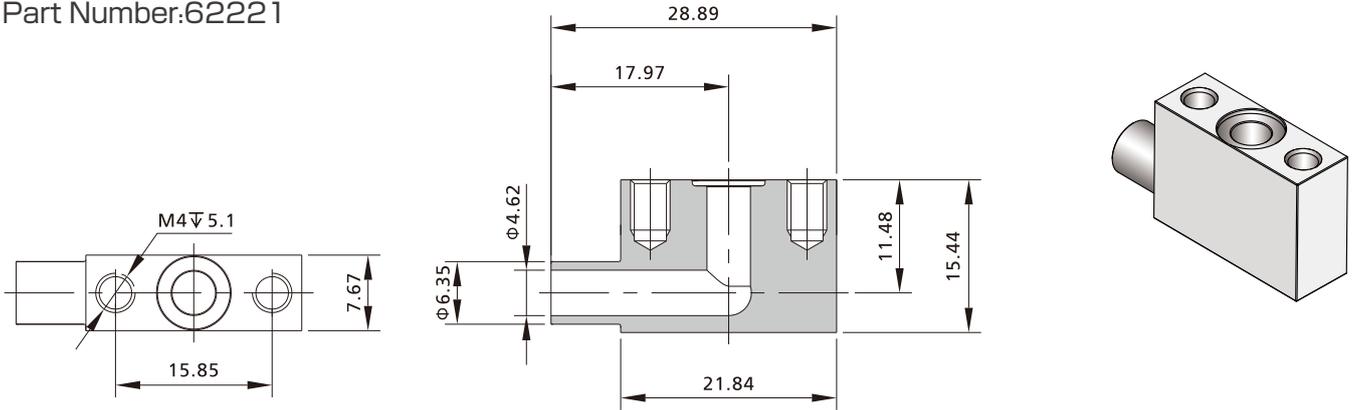
All dimensions in mm

MFC 单孔单支管连接块  
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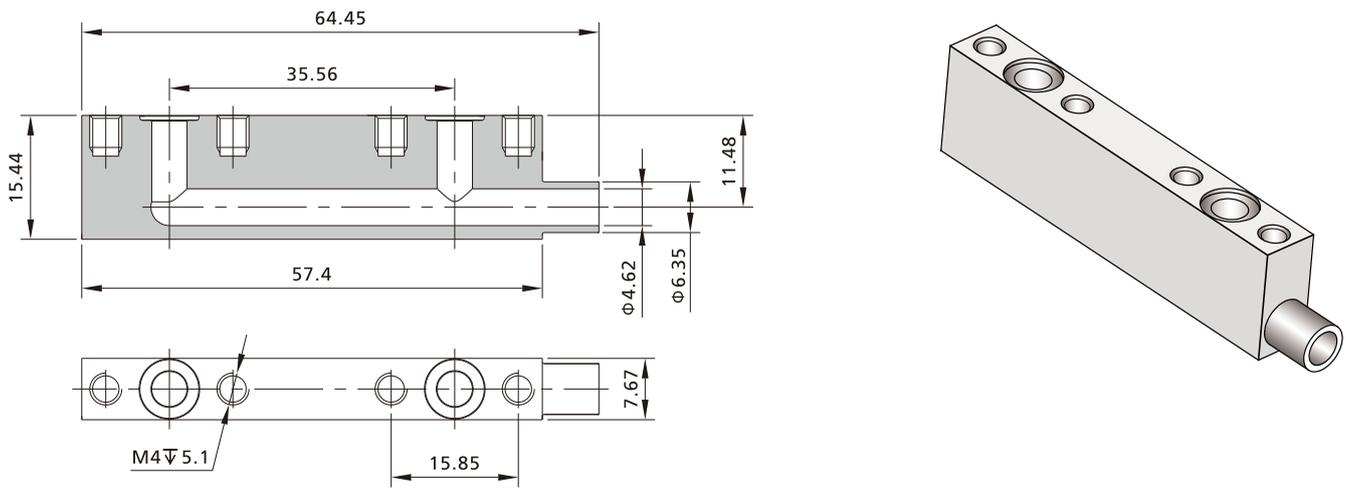
All dimensions in mm

单孔单支管两通连接块  
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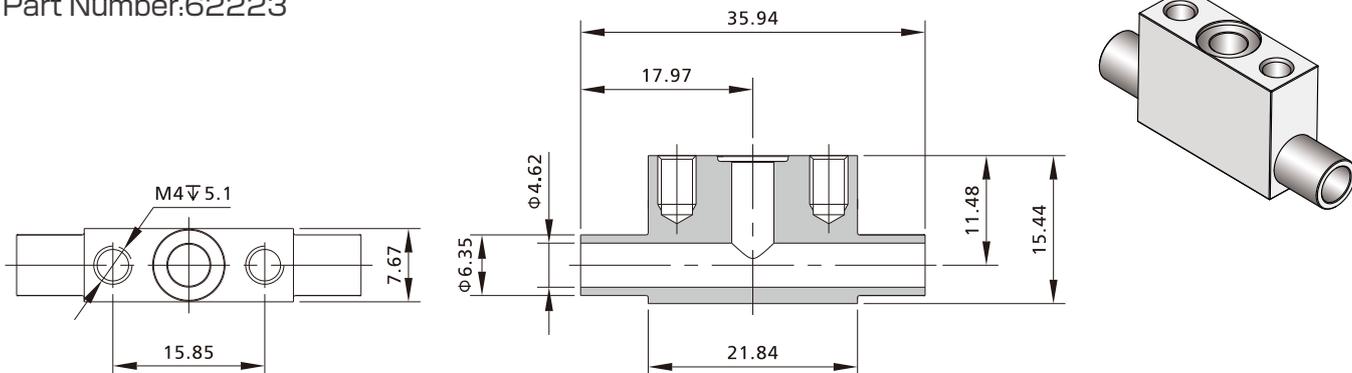
All dimensions in mm

双孔单支管三通连接块  
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All dimensions in mm

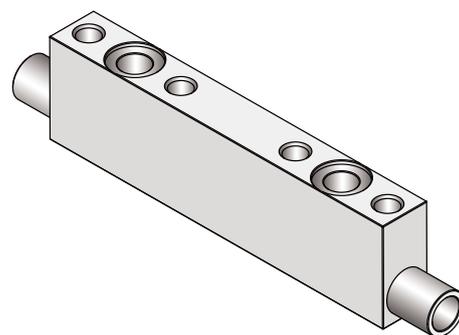
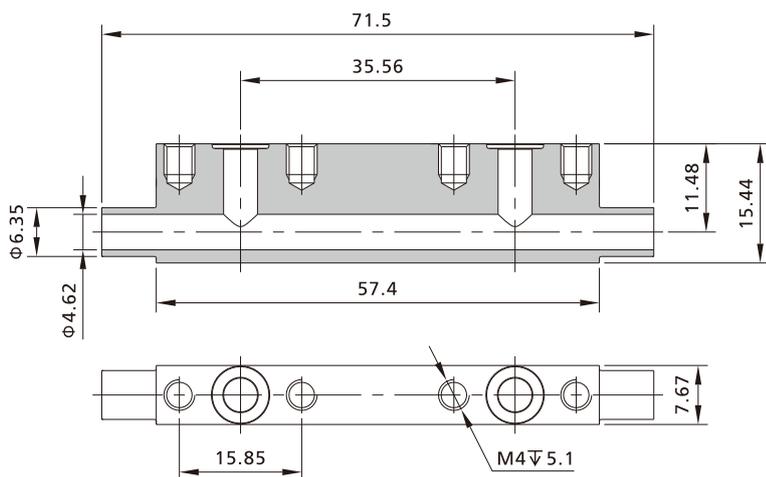
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Part Number:62223



All dimensions in mm

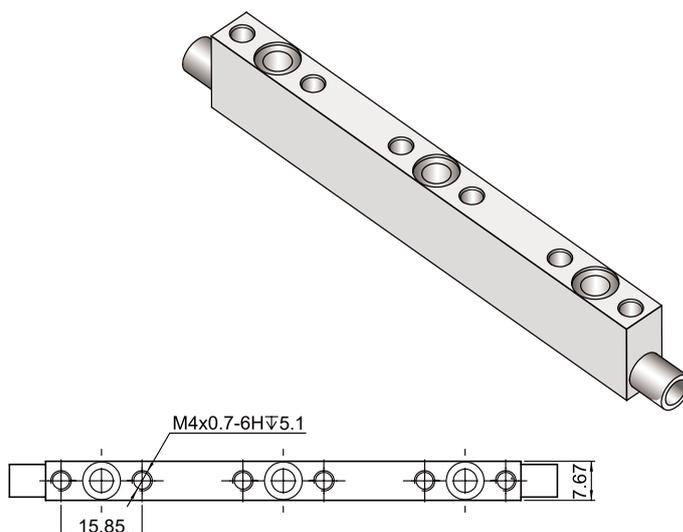
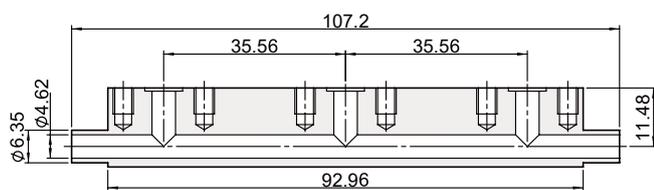
# Manifold Fittings

双孔双支管四通连接块  
Part Number:62224



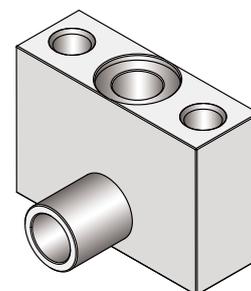
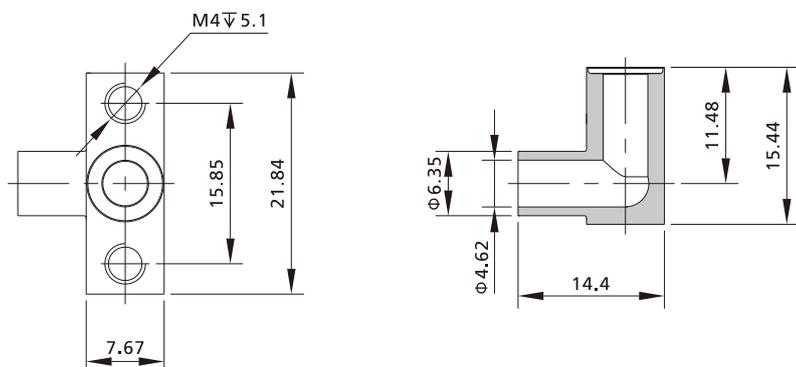
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三孔双支管五通连接块  
Part Number:62225



All dimensions in mm

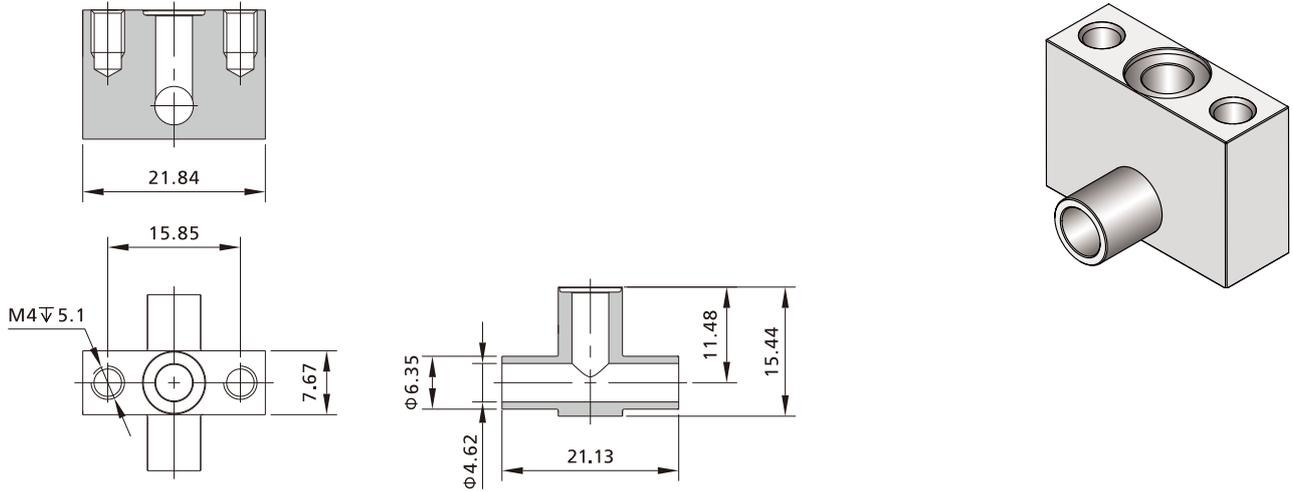
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Part Number:62255



All dimensions in mm

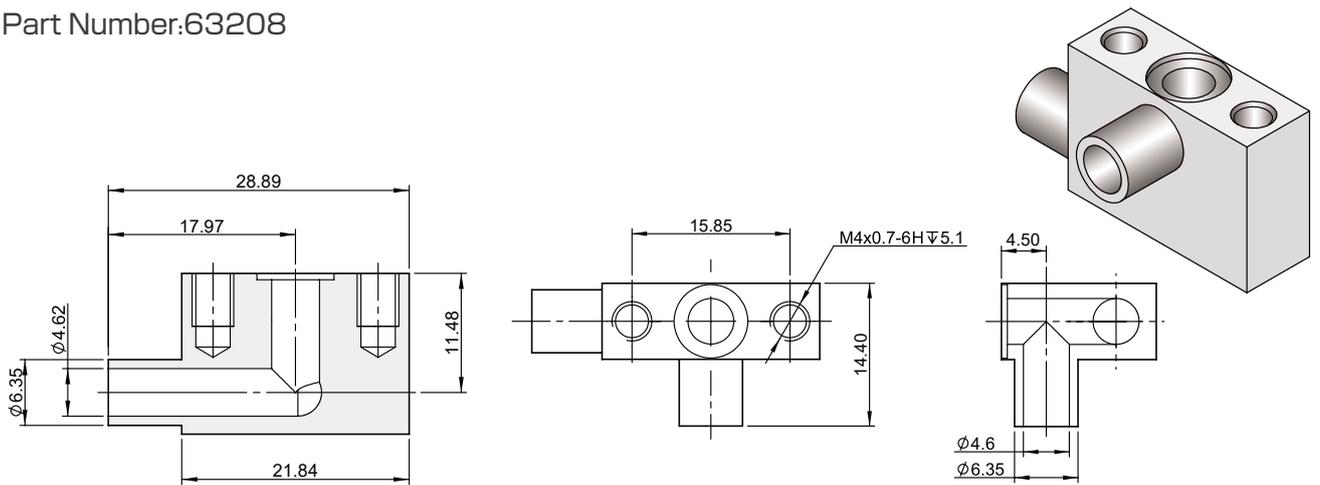
# Manifold Fittings

单孔双侧支管三通连接块  
 Part Number:64495



All dimensions in mm

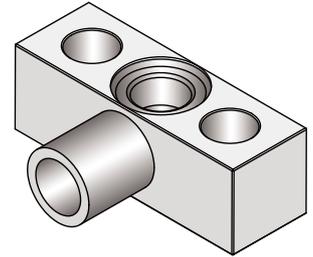
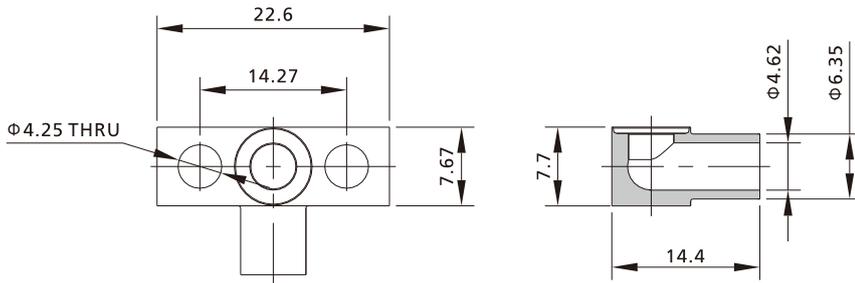
单孔双支管三通连接块  
 Part Number:63208



All dimensions in mm

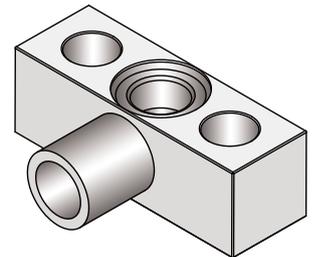
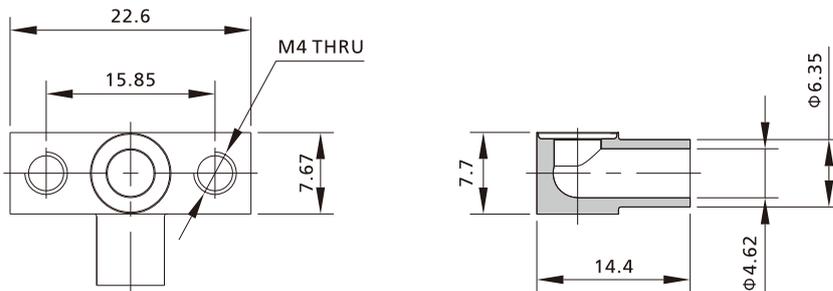
# Flange Fittings

通孔直角弯头法兰  
Part Number:62215



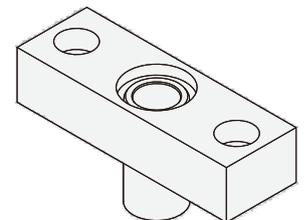
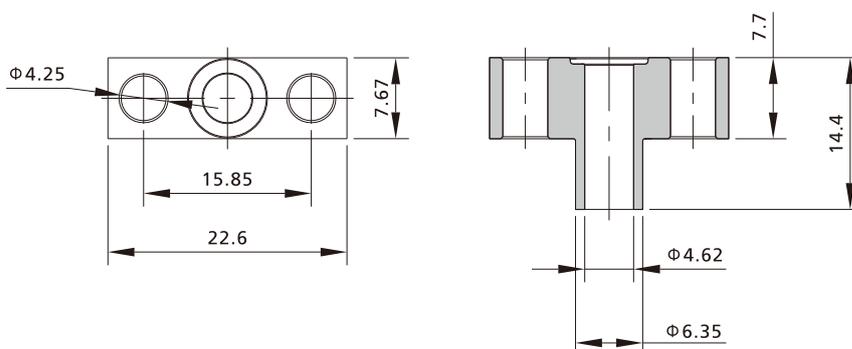
All dimensions in mm

公制螺牙直角法兰  
Part Number:62218



All dimensions in mm

直通接管法兰  
Part Number:62216

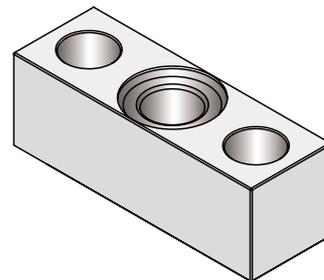
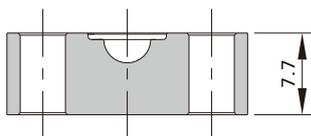
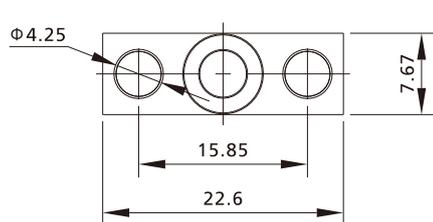


All dimensions in mm

# Cap Base

## 单孔堵帽

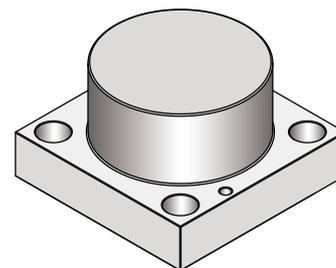
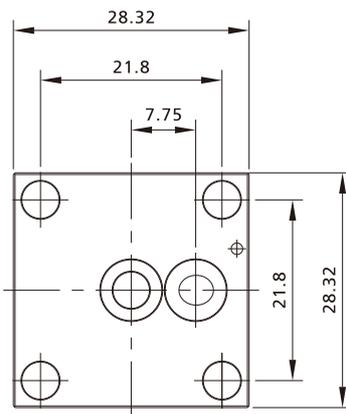
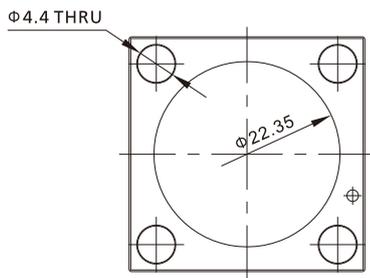
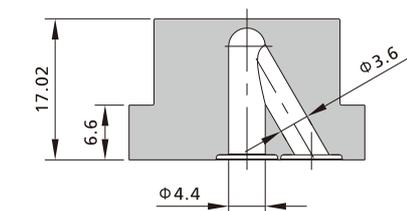
Part Number:62258



All dimensions in mm

## 双孔两通堵帽

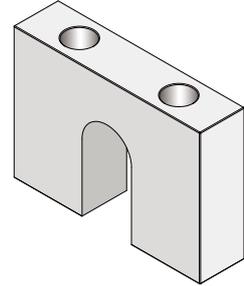
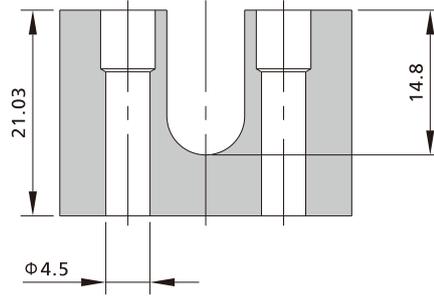
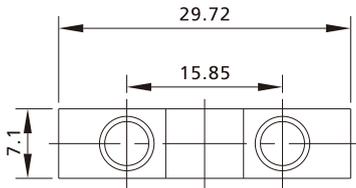
Part Number:62268



All dimensions in mm

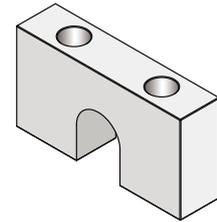
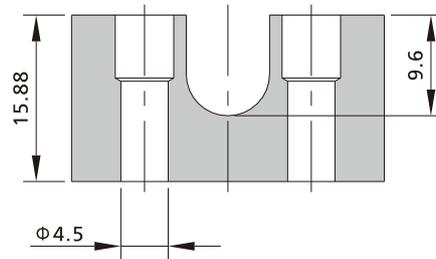
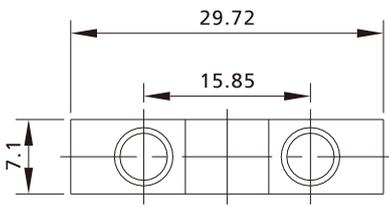
# Mount Block

支撑块  
Part Number: 2103



All dimensions in mm

支撑块  
Part Number: 1588

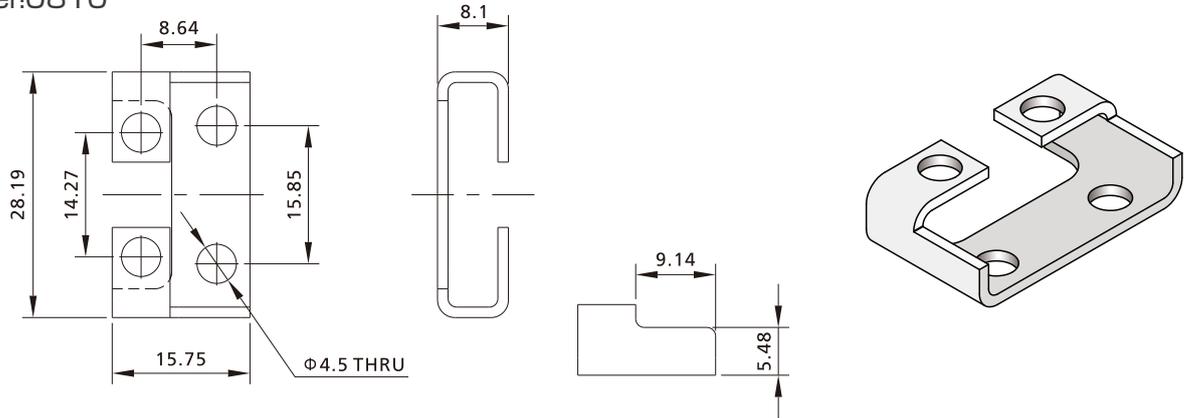


All dimensions in mm

# Support Bracket

支撑架

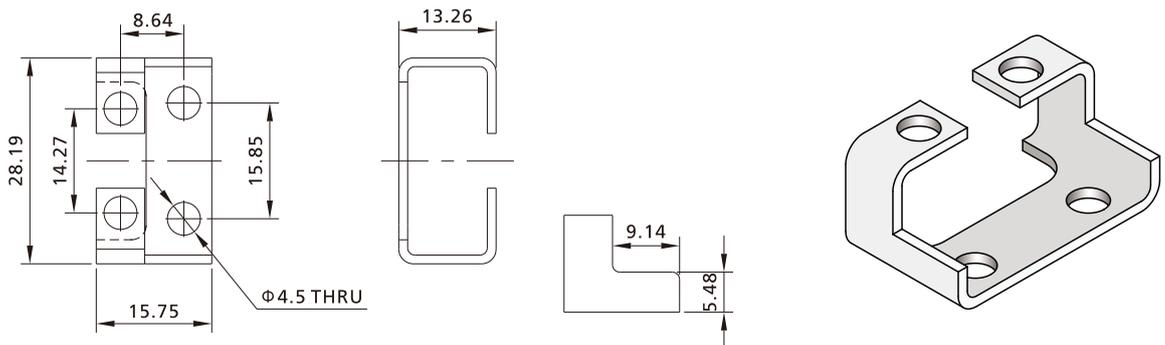
Part Number:0810



All dimensions in mm

支撑架

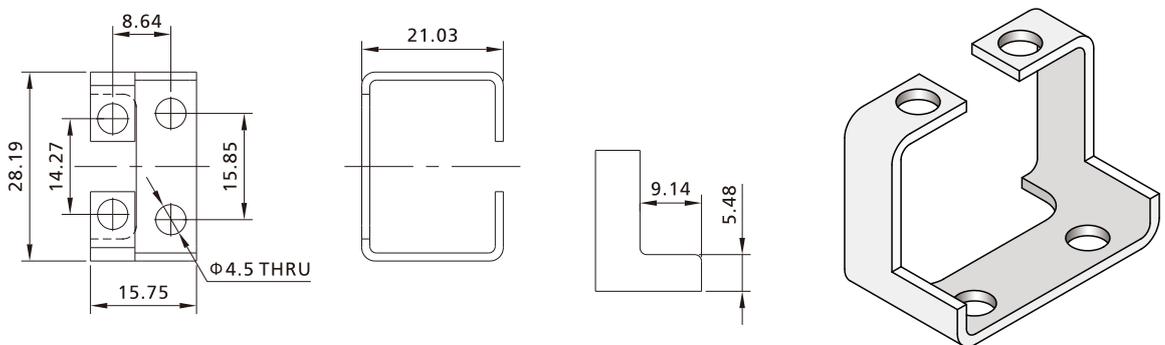
Part Number:1326



All dimensions in mm

支撑架

Part Number:2103

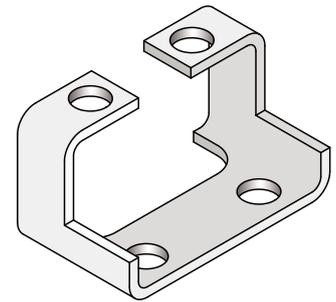
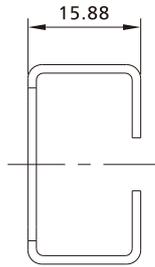
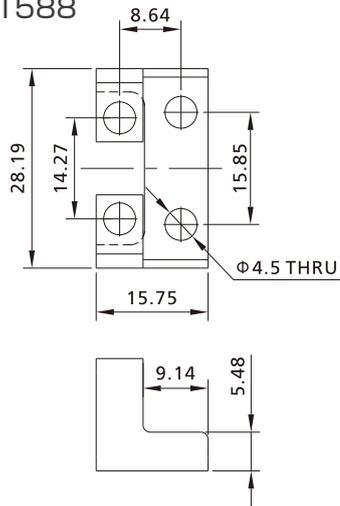


All dimensions in mm

# Support Bracket

支撐架

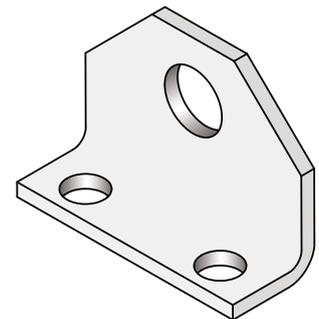
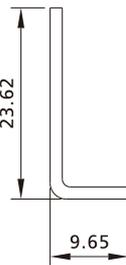
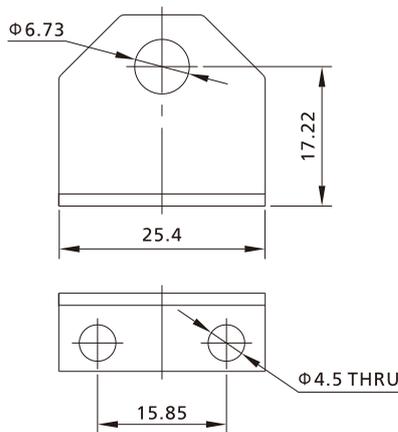
Part Number: 1588



All dimensions in mm

支撐架

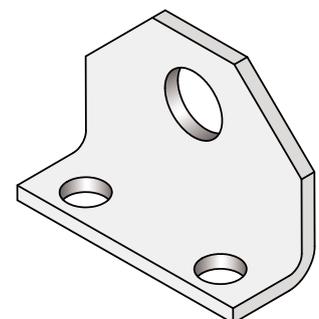
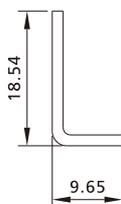
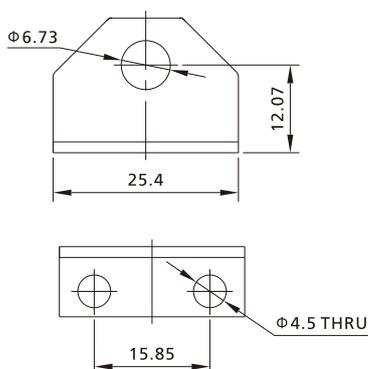
Part Number: 2362



All dimensions in mm

支撐架

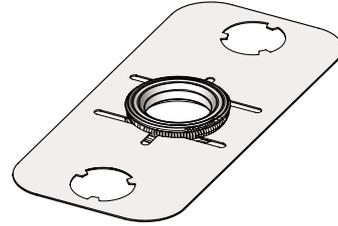
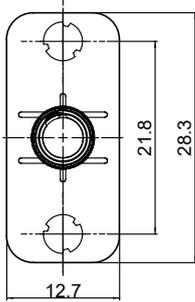
Part Number: 1854



All dimensions in mm

## 单孔垫片

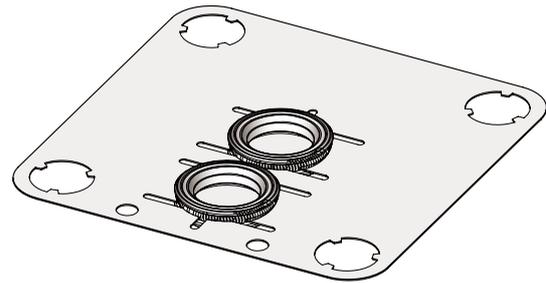
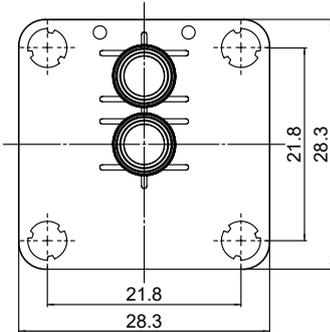
Part Number:62261



All dimensions in mm

## 双孔垫片

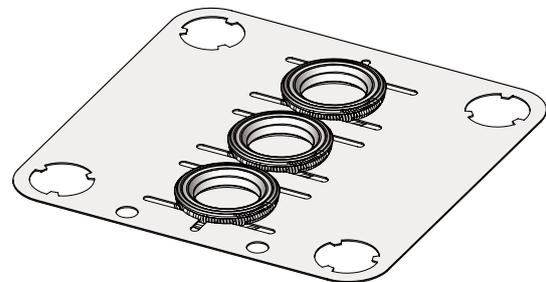
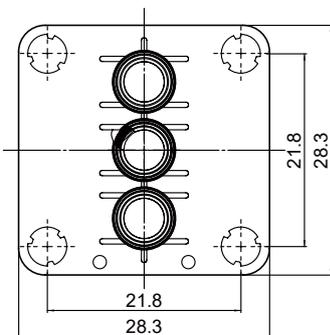
Part Number:62262



All dimensions in mm

## 三孔垫片

Part Number:62263



All dimensions in mm

## 模块化气体系统基块

### W-Seal

浮动式结构有利于减少装配误差，最大程度保证系统的密封性。  
在百级洁净室完成最终组装和包装。



#### 1.125"W-Seal

氦气泄漏率  $\leq 1 \times 10^{-9}$  std cm<sup>3</sup>/s

UHP 超高纯工艺规范

浸润面平均粗糙度不超过 Ra 0.13um(5 uin.)

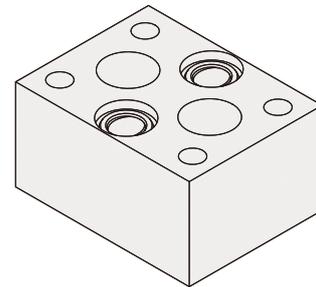
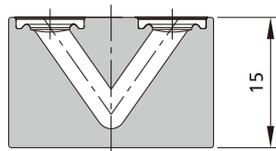
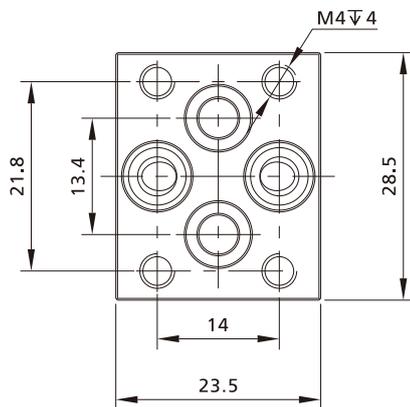
对于长径比大于10的深孔，粗糙度不超过 Ra0.8 um(32 uin.)

### 订购信息

WBC:F131300		-	18		-	40W		-	U	
模块类型		模块代码		模块尺寸		材质		处理工艺		
代码	描述	代码	代码	代码	尺寸	代码	材质	代码	工艺	
WBB	标准基块 Base Block	V121235	18	18	1.125	40	SUS316L	S	标准处理	
WBC	旁通连接 Bypass connection	V121195	24	24	1.5	40V	SUS316L VAR	H	高洁净处理	
		F021355	24H	24H	1.5HF	40W	SUS316L VIM-VAR	U	超高洁净处理	
		F021300				AL	6061 (支撑块)			
		F131355				10	SUS304 (支撑架)			
		F131300				10	SUS304 (支撑架)			
		F241355								
		F241300								
		SR231395								
		SL231395								
		L121395								
		T231505								
		FR032355								
		FR32300								
		FL032355								
		FL032300								
		ER042355								
		ER042300								
		ELO42355								
		ELO42300								
		WCB	堵帽 Cap Base	B000285						
WTB	过渡基块 Transition Block	L121285								
		N121135								
		Y131294								
WEB	末端基块 End Block	Y131244								
		V021180								
		L111216								

## 标准基块

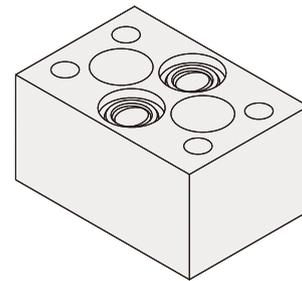
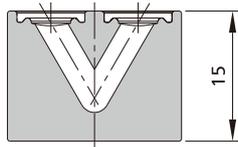
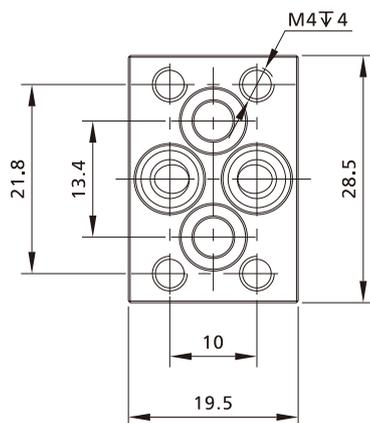
Part Number:WBA - V121235



All dimensions in mm

## 标准基块

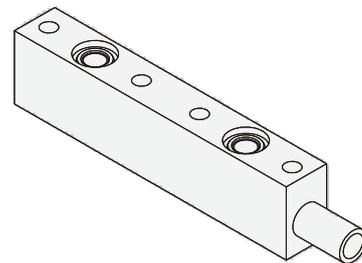
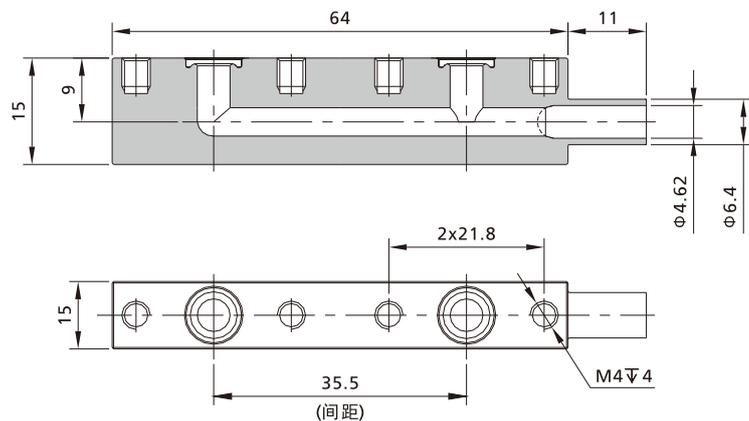
Part Number:WBA - V121195



All dimensions in mm

## 旁通连接

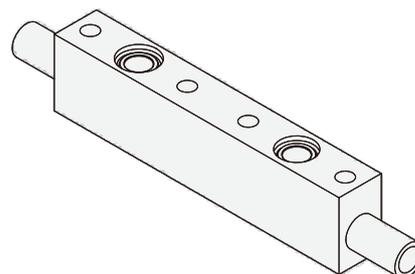
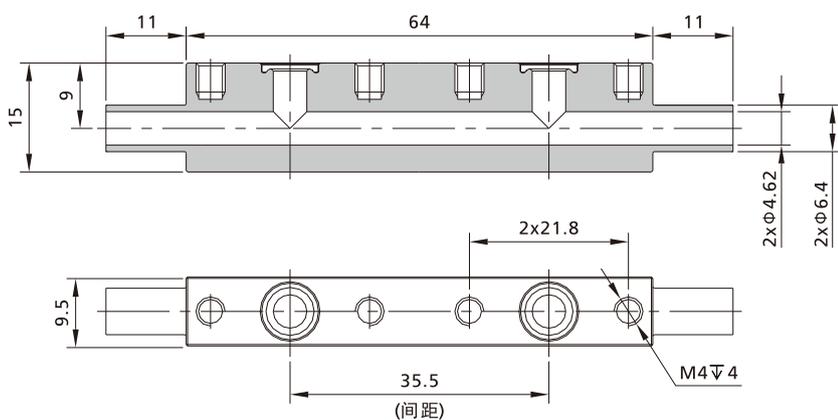
Part Number: 间隔35. 5 WBY - F131355  
 间隔30. 0 WBY - F131300



All dimensions in mm

## 旁通连接

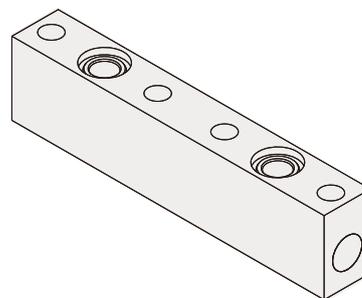
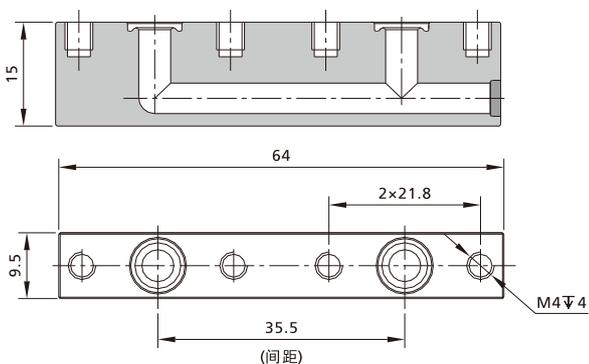
Part Number: 间隔35. 5 WBY - F241355  
 间隔30. 0 WBY - F241300



All dimensions in mm

## 旁通连接

Part Number: 间隔35. 5 WBC - F02135  
 间隔30. 0 WBC - F021300

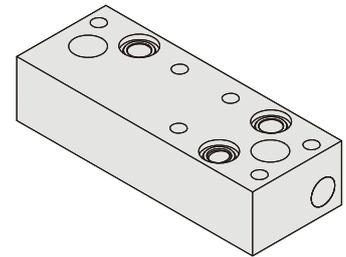
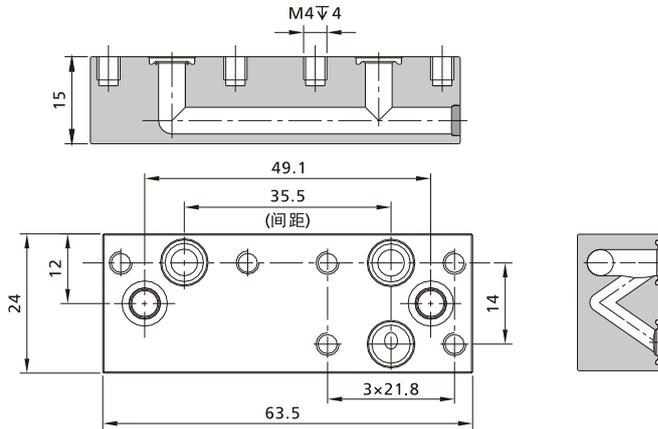


All dimensions in mm

# Bypass Connection

旁通连接

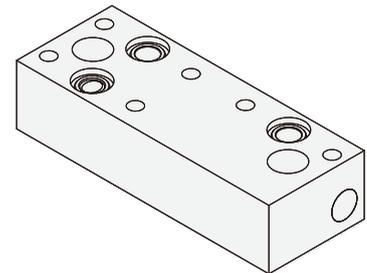
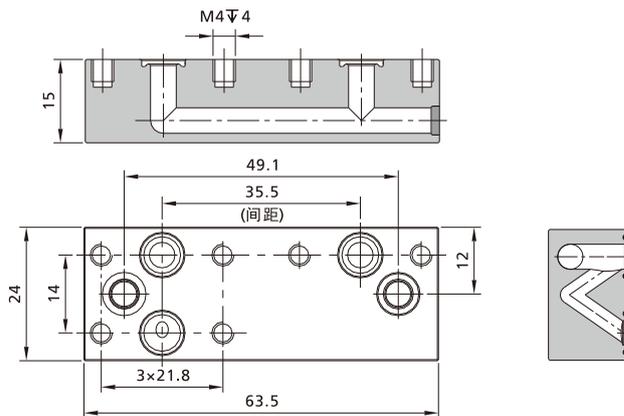
Part Number: 间隔35. 5 WBC - FR032355  
 间隔30. 0 WBC - FR32300



All dimensions in mm

旁通连接

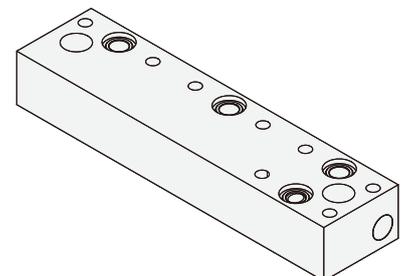
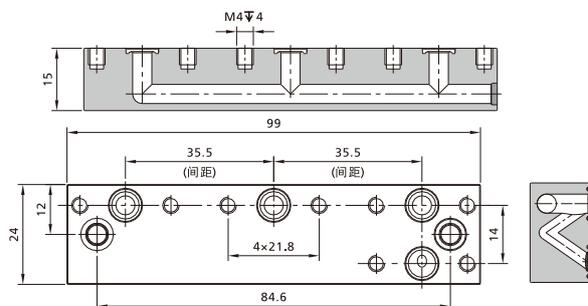
Part Number: 间隔35. 5 WBC - FL032355  
 间隔30. 0 WBC - FL032300



All dimensions in mm

旁通连接

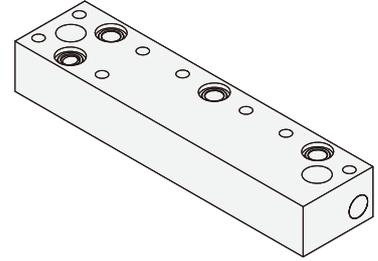
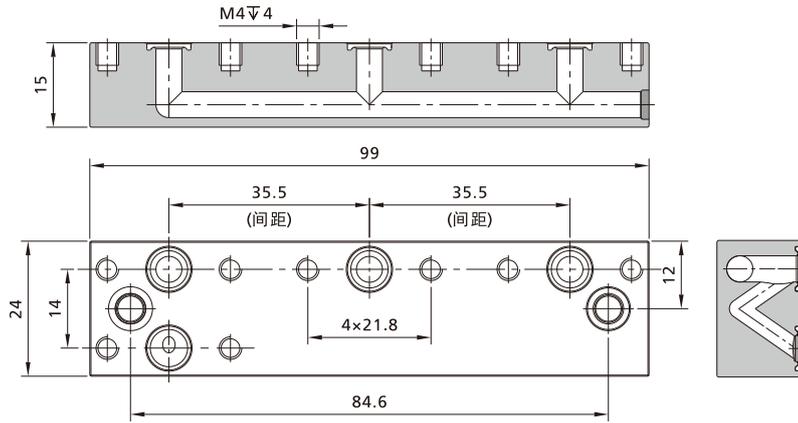
Part Number: 间隔35. 5 WBC - ER042355  
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All dimensions in mm

旁通连接

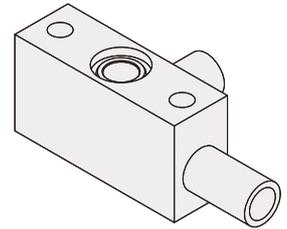
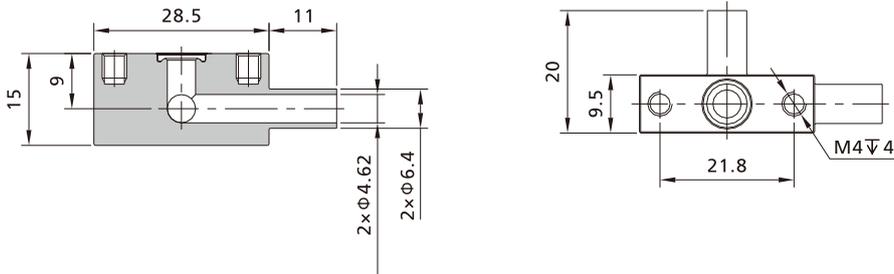
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All dimensions in mm

旁通连接

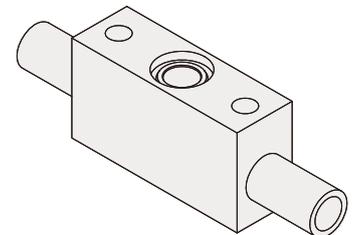
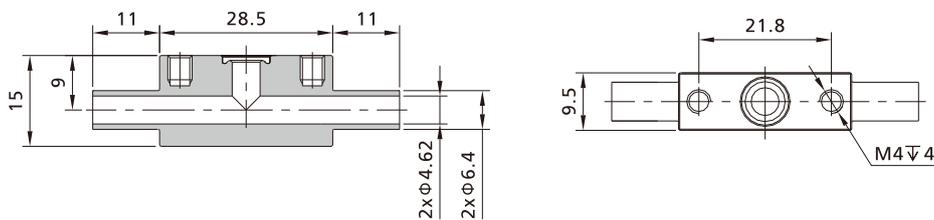
Part Number: WBC - SR231395



All dimensions in mm

旁通连接

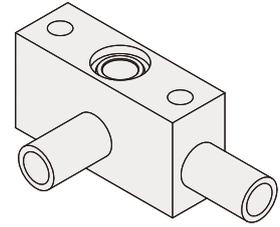
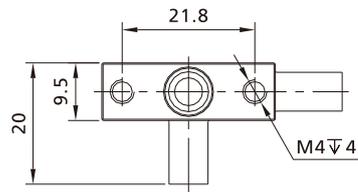
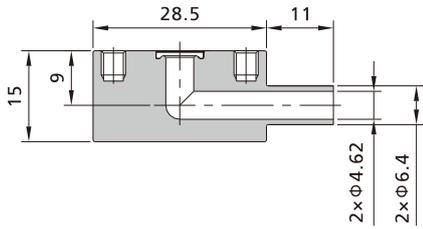
Part Number: WBC - T231505



All dimensions in mm

旁通连接

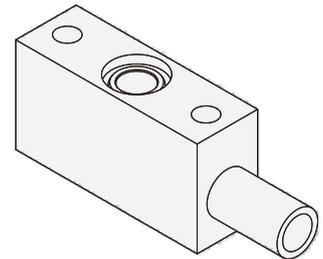
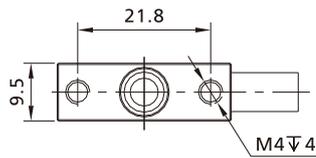
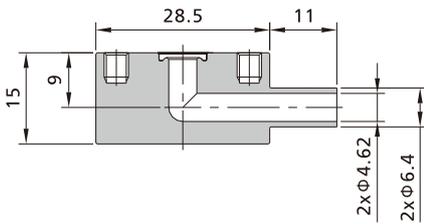
Part Number: WBY - SL231395



All dimensions in mm

旁通连接

Part Number: WBY - L121395

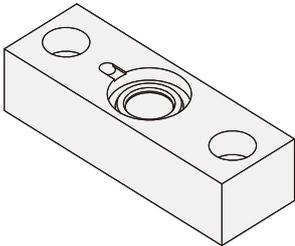
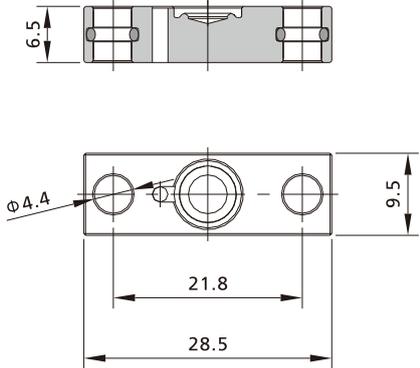


All dimensions in mm

# Cap Base

堵帽

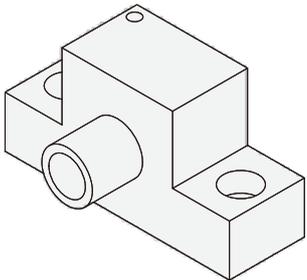
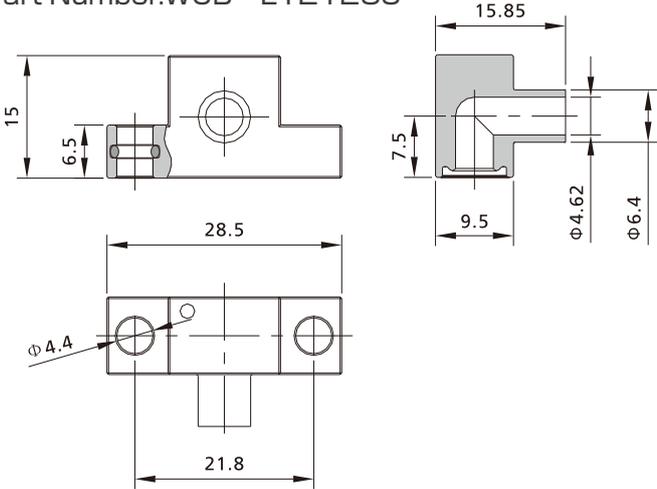
Part Number:WCB – B000285



All dimensions in mm

堵帽

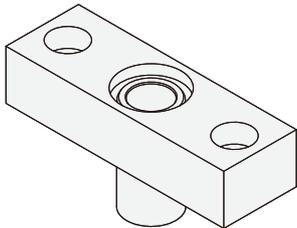
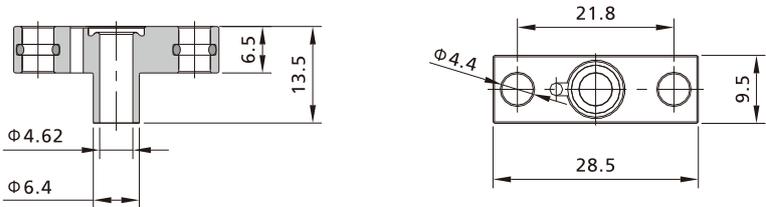
Part Number:WCB – L121285



All dimensions in mm

堵帽

Part Number:WCB – N121135

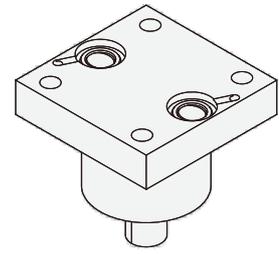
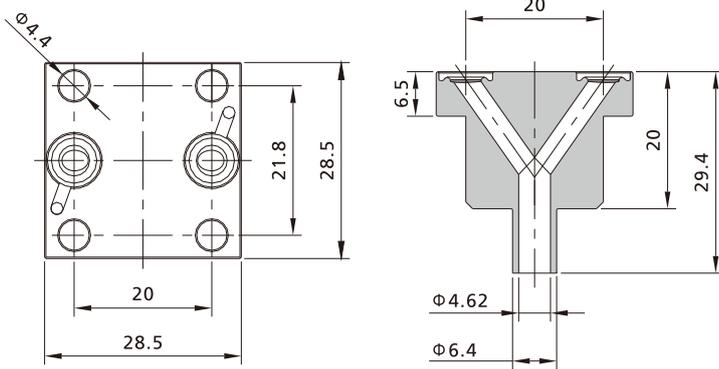


All dimensions in mm

# Transition Block

过度基块

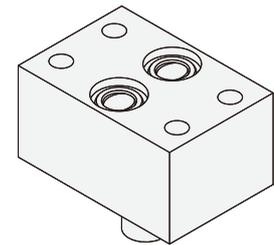
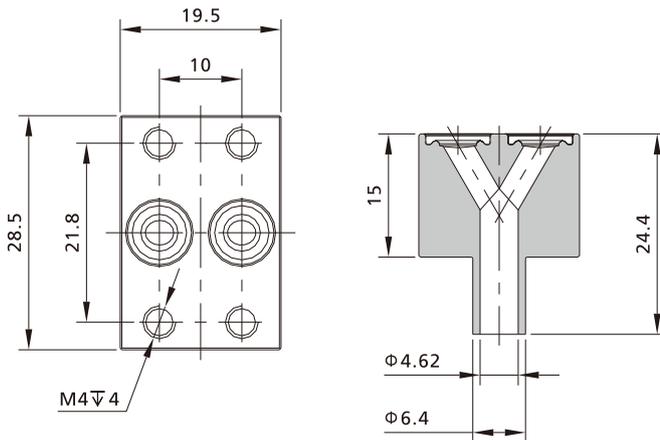
Part Number:WCB - Y131294



All dimensions in mm

过度基块

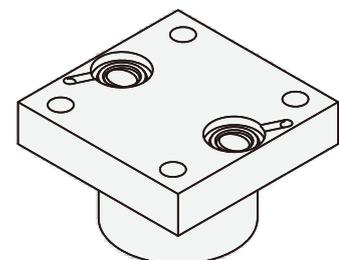
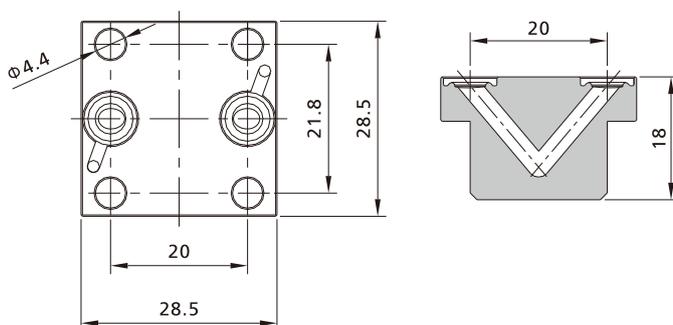
Part Number:WCB - Y131244



All dimensions in mm

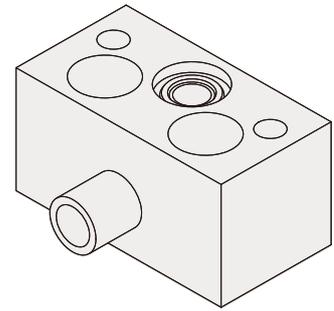
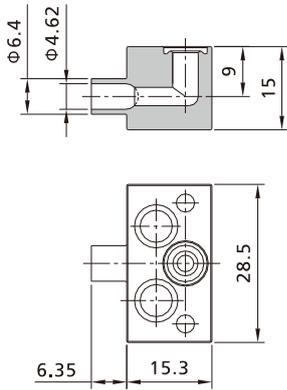
过度基块

Part Number:WCB - V021180

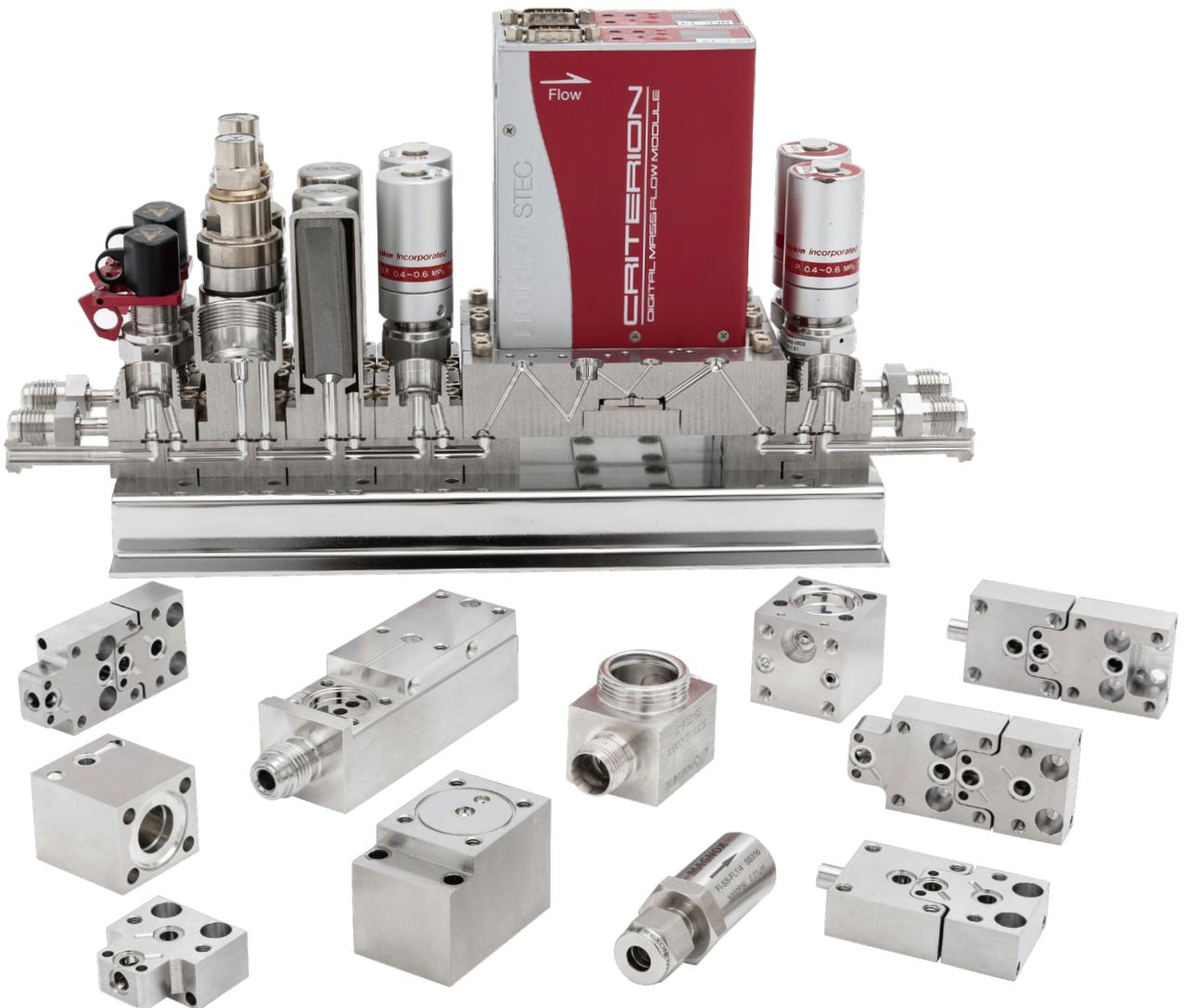


All dimensions in mm

## 末端基块 WEB-L111216



All dimensions in mm



# 因我们而与众不同

OUR PEOPLE MAKE THE DIFFERENCE

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