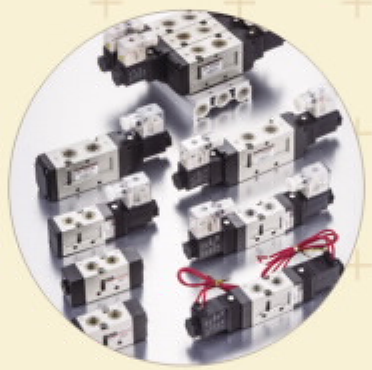

寧波市華益氣動工程有限公司

NINGBO HUAYI PNEUMATIC ENGINEERING CO.,LTD.

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2018

XMC® 華益氣動

HUAYI PNEUMATIC

ISO9001:2015 ROHS

寧波市華益氣動工程有限公司

NINGBO HUAYI PNEUMATIC ENGINEERING CO.,LTD.

诚信天下

XMC®

華益氣動
HUAYI PNEUMATIC

以山的浑厚、海的广博，诚信、务实的品质，敬业、创新的作风，追求卓越、实现跨越式发展的精神，为实现“打造百年企业”的企业目标，搏击市场，去拥抱美好的明天。

几年来，华益历精图治，奋勇拼搏，开拓出一片崭新的天地。我们立足于“诚信、公正、科学”的基点，本着“信用、勤奋、学习”的企业精神，秉承“以信誉为生命，以产品为先导，以质量为依托，以服务为保证，以价格为杠杆”的营销理念，用一种坚强的信念和毅力树立华益的品牌声誉和企业形象，在国际上独树一道靓丽迷人的风景线。

我们愿以山一样的纯朴，海一样的胸怀，广交天下朋友，更愿意与朋友们心相印，情相系，手相牵，共创美好明天。

——董事长：郑岩森

企业介绍

宁波市华益气动工程有限公司是一家已有20余年专业生产经验的气动元件厂家，是中国液压气动密封件工业协会理事单位，全国液压气动标准化技术委员会委员单位，第三届奉化市气动工业协会会长单位。

公司于2002年率先在同行中获得ISO9001质量体系认证，英国UKAS认证和欧盟ROHS认证。公司的主要产品是气源处理件，电磁阀和气缸。

2006年公司投资3000多万元，建造了全新的现代化厂房3万多平方米，购置了大量的精密加工设备和检测设备。“华益技术研发中心”的成立，更使公司的技术设计、研发和生产等各方面都上了一个台阶。目前，公司拥有专利知识产权30多项，商标已在全球范围注册。2007年，被评为“宁波市名牌产品”和“宁波市知名商标”。2009年被评为“宁波市科技型企业”，2011年被评为“国家高新技术企业”荣誉称号。

放眼未来，我们将本着“信用. 勤奋. 学习”的企业精神，向着“华益气动，引领神州”的企业目标，全力打造“华益气动”的世界品牌。竭诚欢迎新老顾客光临惠顾。

Enterprise Introduction

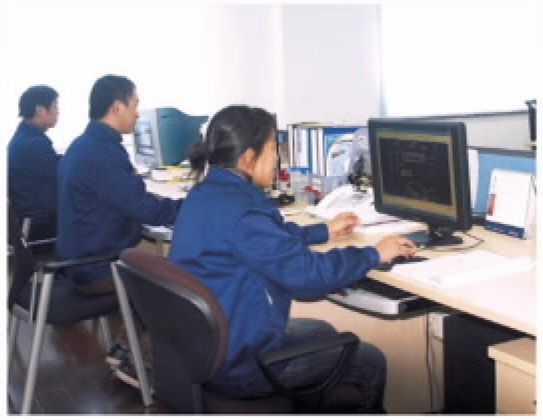
Founded in 1987, Ningbo Huayi Pneumatic Engineering Co., Ltd (XMC) is one of the leading manufacturers of pneumatic components in China. In the past over 20 years, XMC keeps providing high quality, reliable products, and technical support for satisfy customers' requirements in ever changing market conditions throughout the world.

In the year 2002, XMC passed the ISO9001, UKAS certification. In order to enter the Eu ropean market, XMC passed the RoHS certification in the year 2006. Our main products is FRLs, Solenoid Valves, Cylinders and Accessories.

In the year 2006, XMC invested 30 Millions RMB to build the modernized factory, and bought a lot modern machines to ensure the high quality products.And the foundation of " XMC Technology Center" brought a thorough new step for our Designing, Researching, Production, etc. At present, XMC has more than 30 patents, the logo of XMC is registered in worldwide. In the year2007, XMC brand was awarded " NINGBO FAMOUS PRODUCTS" In the year 2011, XMC was awarded "STATE NEW HI-TECH ENTERPRISE" by the government.

Looking ahead, XMC will insist on the enterprise spirit" Honesty, Diligence, Learning", do our best to shake hands with the friends all over the world. Warmly welcome new and old friends to visit XMC.

XMC®



XMC®

寧波市華益氣動工程有限公司

企业荣誉
Enterprise honors

NINGBO HUAYI PNEUMATIC ENGINEERING CO.,LTD.

八大经营理念

1、接近客户、了解客户；
2、让员工发挥自主性以及创业精神；
3、通过培训、提高员工素质；
4、透过个人来提高生产力；
5、建立正确的价值观，积极实行；
6、做内行的事；
7、宽严并济；
8、达到最高质量的产品。

Pioneer

1、Clients who we get closer,the more understanding we know;
2、Let cur staffs to perform the spint of creatlvlty on their own careers;
3、To improve our staffs self-quality under our trarigg scheme;
4、To improve the productivity through the indiviuals;
5、To do what we know to do;
7、To apply both the " kind " and " serious " att tudes on our business;
8、Target best quality products.

HUAYI PNEUMATIC

International Sales Network

国际销售网络

寧波市華益氣動工程有限公司
NINGBO HUAYI PNEUMATIC ENGINEERING CO.,LTD.

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華益氣動 HUAYI PNEUMATIC

产品目录 Products contents

订购码 / Ordering Code

系列 Series	功能/Function	压力表安装方式 /Gauge installation	规格 /Specification	接口螺纹 /Interface thread	特殊设计 /Special design
X	F/过滤器(Filter)	无:老款常规圆形压力表安装方式	4	M5	无:标准 /Standard
A	R/减压阀(Regulator)	E:新款嵌入式方形压力表安装方式	1000	01(1/8)	D:自动排水 /Auto Drain
HA	L/油雾器(Lubricator)	G:新款常规圆形压力表安装方式	2000	02(1/4)	M:金属杯 /Metal cup
HNA	FRU，W/过滤减压阀 (Filter Regulator)		2500	03(3/8)	
HL	FRUL，C/二联件 (FR+L)		3000	04(1/2)	
	FRL，C/三联件 (F+R+L)		4000	06(3/4)	
			5000	10(1)	
			20/30/40	12(1 1/4)	
			800/900	14(1 1/2)	
			825/925	20(2)	

规格 / Specifications

组合	型号	接口螺纹	构成元件			
			空气过滤器	减压阀	油雾器	过滤减压阀
AF+AR+AL 	AC1000	M5	AF1000	AR1000	AL1000	
	AC2000	1/8~1/4	AF2000	AR2000	AL2000	
	AC2500	1/4~3/8	AF3000	AR2500	AL3000	
	AC3000	1/4~3/8	AF3000	AR3000	AL3000	
	AC4000	3/8~3/4	AF4000	AR4000	AL4000	
	AC5000	3/4~1	AF5000	AR5000	AL5000	
AW+AL 	AC1010	M5			AL1000	AW1000
	AC2010	1/8~1/4			AL2000	AW2000
	AC3010	1/4~3/8			AL3000	AW3000
	AC4010	3/8~3/4			AL4000	AW4000
	AC5010	3/4~1			AL5000	AW5000
AF+AR 	AC1020	M5	AF1000	AR1000		
	AC2020	1/8~1/4	AF2000	AR2000		
	AC2520	1/4~3/8	AF3000	AR2500		
	AC3020	1/4~3/8	AF3000	AR3000		
	AC4020	3/8~3/4	AF4000	AR4000		
	AC5020	3/4~1	AF5000	AR5000		

注：HA、HNA系列的组合方法与A系列相同。

使用维护须知/ How to Use and Maintain

1. 使用前注意检查元件在运输过程中是否损坏，连接部位是否松动，然后再安装使用。
2. 安装时请注意气体流动方向，并保持位置垂直。
3. 进出口带缩接时，元件的流量约减小10%；过滤精度每增加一级，流量减小约7%。
4. 带防护罩的元件，使用前一定要使防护罩固定，避免发生危险。
5. 使用减压阀或过滤减压阀时，应先将调节手轮调节至零位，并将压力表，堵头分别安装在减压阀或过滤减压阀相应位置上，并保证其不漏气（压力表，堵头安装位置可以互换），然后通气，调节至相应压力。
6. 使用油雾器时，应先将油量阀针调节至零位，加入恰当的润滑油至油位线，然后根据需要通气后调节至适当的位置。注意：润滑油的牌号，不能选用锭子油及含低级酮、芳香烃的润滑油。
7. 采用金属管子连接时，请注意清除管子内部的金属颗粒、粉尘、油污等。

1. Before use, check the unit to see if it is damaged during the course of transport, and if the joint part is loose. Then install for use.
2. When installing, pay attention to the direction of airflow and keep the unit upright.
3. When the inlet and outlet belts are in reduced connection, the flow rate of the unit is reduced by 10% approx. With each upgraded class of filtering precision, the rate of flow will be reduced by 7% approx.
4. For units witha protective cover, make sure such cover is fixed before use to avoid danger.
5. When use the pressure reduction valve or filter pressure reduction valve, it is required to adjust the control hand wheel to the zero position first. Fix the pressure gage and end plug on the corresponding positions of the pressure reduction valve or filter pressure reduction valve and ensure they are air-tight (positions of the pressure gage and end plug may be exchanged) Then let in air and adjust to a proper pressure.
6. When using the oil mister, it is required to adjust the oil quantity valve needle to the zero position and add appropriate oil to the oil level line first. Then adjust to a proper position after letting in required air. Pay attention to the brand and grade of the lubricating oil. Never use spindle oil and lubricating oil containing lower ketone or aromatic hydrocarbon.
7. When using metal tubes for connection, remember to remove the metal grains, dusts and oil stains in the tubes.

订货须知 /How to Order

1. 订货时请注明产品名称、订货号、规格、数量等。
2. 订购过滤器、减压阀、过滤减压阀等元件时，敬请说明过滤精度、压力范围，否则按常规规格订货。
3. 如有特殊要求，敬请来人、来函说明，双方协商解决。

1. Give a clear indication of product denomination, order number, specification and quantity when placing an order.
2. For orders of filter, pressure reduction valve and filter pressure reduction valve etc., please specify the filter precision and pressure range. Otherwise, goods of conventional specifications will be supplied.
3. For special requirements, please explain to us through personal visits or correspondences. Any problems can be settled through negotiation between us.

特别说明/Special Instruction

1. 水杯、油杯、视油窗的材料为聚碳酸脂的空气过滤器、空气过滤减压阀、油雾器：
   1) 不能使用在含有下列物质的介质或环境中。
   酸(盐酸、硫酸、磷酸、铬酸)、碱(氢氧化钠,氢氧化钾，消石灰，氨水,碳酸钠)、无机盐(硫化钠、硝酸钾、硫酸钠)、氯系溶剂(四氯化碳、氯仿、氯化乙烯、氯化亚甲基)、芳香族类(苯、环已烷、稀料)、酮类(丙酮、丁酮)、醇类(酒精、异丙醇、甲醇)、油类(汽油、煤油、碱性水溶性切削液)、脂类(邻苯二甲酸二甲脂、邻苯二甲酸二乙脂)、醚类(甲醚、乙醚)、胺类(乙胺)、螺纹密封液、海水。
   2) 不能使用在日光直射的场所，应遮断日光。
2. 空气减压阀的出口压力的设定应在进口压力的 85%以下,以免出现过大的压力降。
3. 油雾器的使用空气流量必须满足滴油量的需求，空气流量不足，会产生不滴油。
4. 油雾器应使用透平 1号油(无添加剂)ISOVG32，使用除此外的油会造成元件损坏或动作不良。

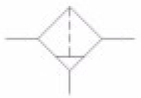
1. For the air filters,filter regulators and lubricators which water bowls, oil bowls and oil windows are made of polycarbonate:
   1)They can not be used in the medium or circumstance below:
   Acid (hydrochloric acid, vitriol, phosphate, chromate), Alkali (Sodium hydroxide, Potassium hydroxide, autunite hydroxide, ammonia, sodium carbonate), Inorganic salt (sulfureted sodium,Niter,Glauber's salt). Chlorin impregnant (tetrachloride, chloroform, chloridize ethane, chloridize methylene), Aromaticity (Benzene, cycloparaffin, enol). Ketone (Acetone, butyltone). Alcohol(alcohol, carbinol), oil (gas, coal oil, alkalescence water-solubility cutting liquid), Ester, Aether, Amine,
   Screw encapsulant, seawater.
2.In order to avoid too much pressure fall,the outlet pressure should be controlled lower than 85% of inlet.
3.If the air flow is not enough, the lubricator will not drop the oil. So the air flow of the lubricator must be satisfied for the oil drop requirement.
4.The oil of the lubricator must be Turbine No.1 Oil ISOVG32. The components will be destroyed if you use another kind of oil.

特性/Features:

该系列元件包括空气过滤器、减压阀、油雾器及其组合元件，接口螺纹为 G1/4，元件结构轻巧，特别适用于小型气动装置。

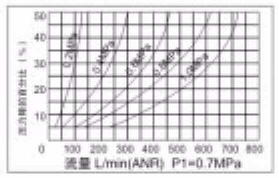
This series include air filter, pressure regulators, Lubricators and their combinations. The joint screw is G1/4. The components are light in structure and especially suit miniature pneumatic devices.

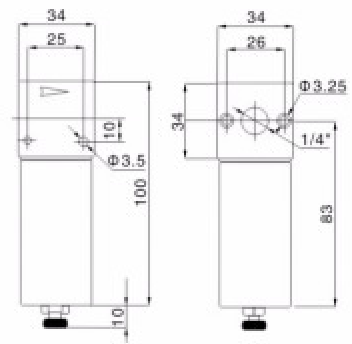
XF4过滤器/Filter



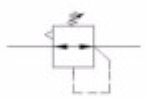
订货号 /Order No.	XF4
过滤精度/Filter Precision	50 μ m
重量/Weight	0.15kg
环境温度 /Ambient Temperature	5~60℃
最大工作压力 / Maximum Working Pressure	1.0MPa

流量特性曲线 / Characteristic Curve of Flow Rate



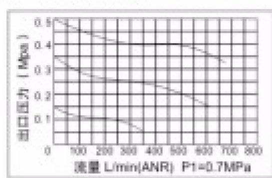


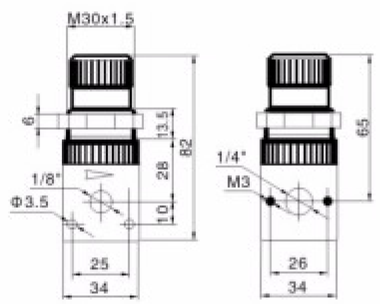
XR4 减压阀 / Regulator



订货号 /Order No.	XR4
调压范围/Pressure Regulating Range	0.05~0.25MPa, 0.05~0.63MPa
重量/Weight	0.135kg
环境温度 /Ambient Temperature	5~60℃
最大工作压力 / Maximum Working Pressure	1.0MPa

流量特性曲线 / Characteristic Curve of Flow Rate

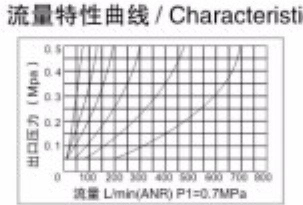


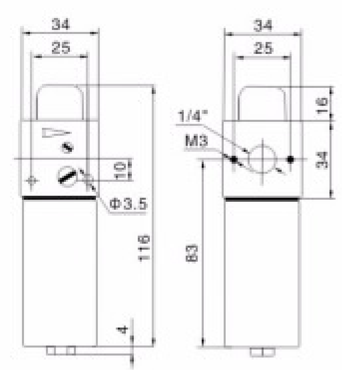


XL4油雾器 /Lubricator

订货号 /Order No.	XL4
油雾平均粒径 /Average Filtration	<50 μ m
重量/Weight	0.15kg
环境温度 /Ambient Temperature	5~60℃
最大工作压力 / Maximum Working Pressure	1.0MPa

流量特性曲线 / Characteristic Curve of Flow Rate

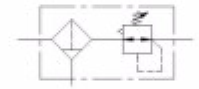




PNEUMATIC

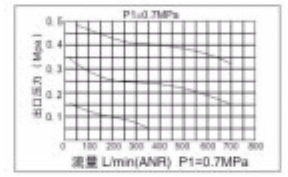
X 系列气源处理元件 / X Series Air Treatment Units

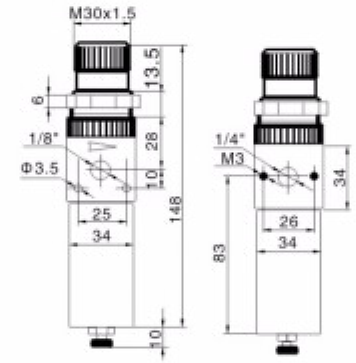
XFRU4过滤减压阀/Filter Regulator



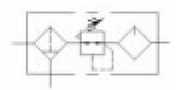
订货号 /Order No.	XFRU4
过滤精度/Filter Precision	50 μ m)
调压范围/ Pressure Regulating Range	0.05~0.25MPa,0.05~0.63MPa
最大工作压力 / Maximum Working Pressure	1.0MPa
环境温度 /Ambient Temperature	5~60℃
重量/Weight	0.17kg

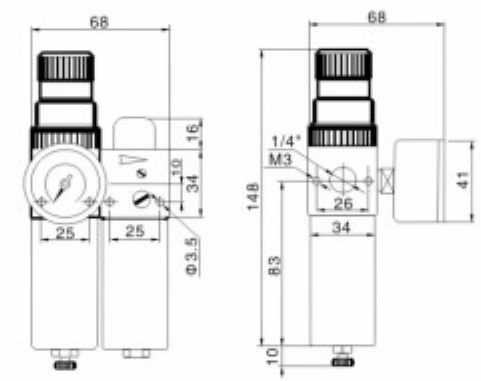
流量特性曲线 / Characteristic Curve of Flow Rate



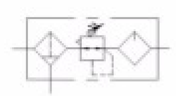


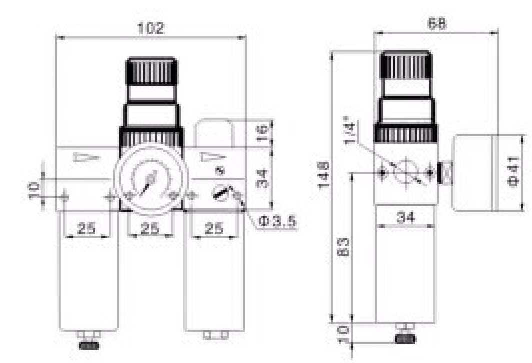
XFRUL4二联件/Combination Unit(FR+L)





XFRL4三联件/Combination Unit (F+R+L)





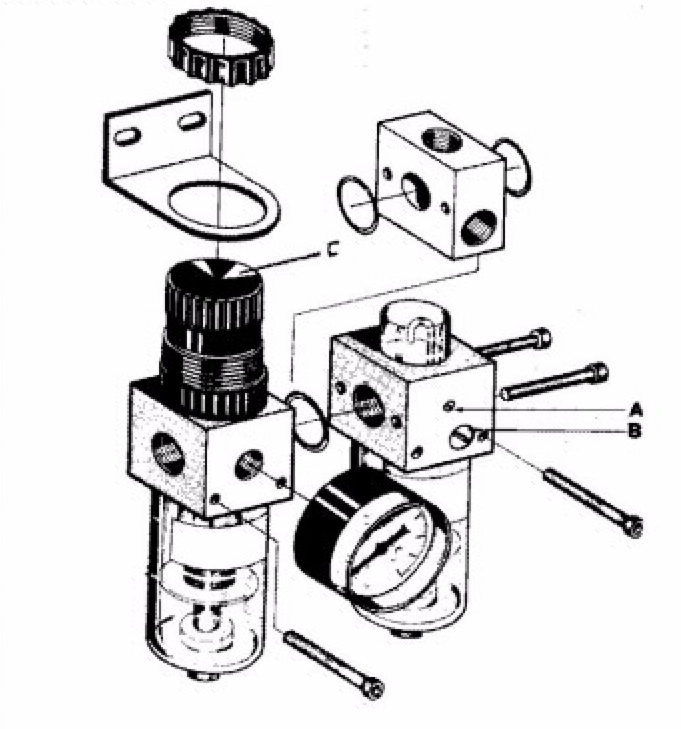
连接方式 / Connection Mode

说明:
A-调节针阀。调节油量大小。
B-加油孔螺栓。加油时首先切断气源,然后将B拧下加油至规定高度,加油完毕后将B拧上,保证密封。
C-压力调节手轮。调节压力时将 C 垂直向上提至调节位置,转动C调节至所需压力,然后垂直压下,锁定手轮 C,保持压力稳定。

Note:
A- Adjusting needle value; Adjust oil quantity
B- Filler hole bolt; When filling oil, first cut off the air source, then remove B and add oil to the specified height. After filling oil, fix B to ensure the air-tightness.
C- Pressure adjusting hand wheel; When adjusting pressure, lift C vertically to the position for adjustment. Turn C and adjust until the required pressure is obtained. Then hold down vertically to keep the pressure stable.

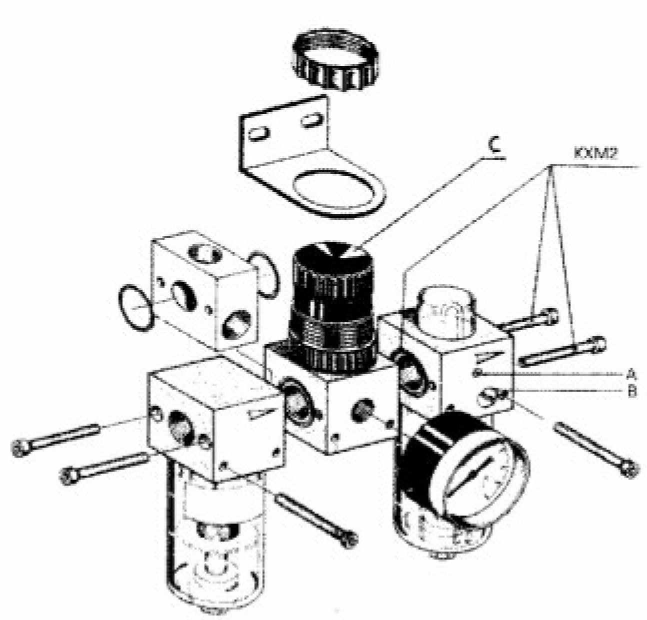
二联件连接方式 /Connecting Mode of Double-link Unit

XFRU4+XL4

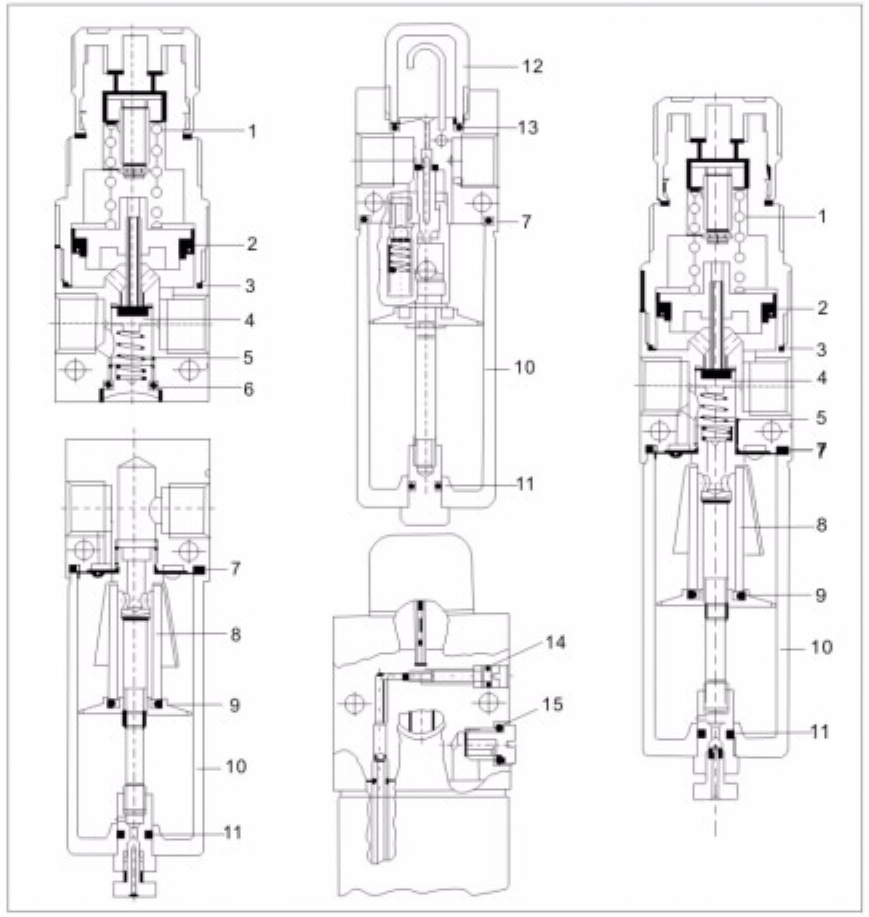


三联件连接方式 / Connecting Mode of Triple-link Unit

XF4+XR4+XL4



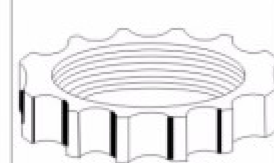
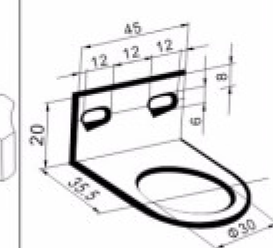
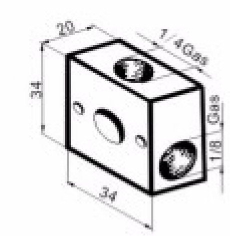
结构简图 /Structural Diagram



序号/No.	数量/Qty.	名称/Denomination
1	1	调压弹簧/Pressure Adjusting Spring
2	1	Y形圈/Y-ring
3	1	O形圈/O-ring
4	1	阀芯组件/Valve Core Assembly
5	1	平衡弹簧/BalanceSpring
6	1	O形圈/O-ring
7	1	O形圈/O-ring
8	1	滤芯/FilterElement
9	1	O形圈/O-ring
10	1	存水杯/Water Storage Cup
11	1	O形圈/O-ring
12	1	油窗/Oil Window
13	1	O形圈/O-ring
14	1	O形圈/O-ring
15	1	O形圈/O-ring

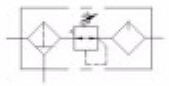
注：所列易损件数量均为单个元件所含的数量
Note: The quantity of the listed wearing parts is the quantity for each unit.

附件: /Accessories

拼帽 / Joint Cap XRG	支架 / Bracket XSG	中间体 / Middle Part XIR	压力表 G36-10-01 /PressureGage	缩接/Reducer 0161310
				

A 系列气源处理组合元件(三联件) / A Seiries Combination Unit (F+R+L)
AC1000~5000 系列/Series

符号/symbol



规格 /Specification

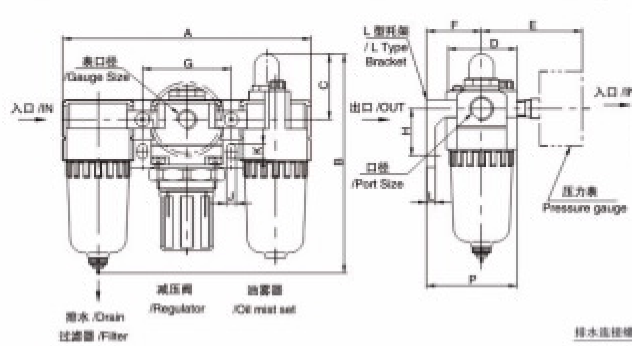
保证耐压力/Ensured Pressure Resistance	1.5MPa(15kgf/cm²)
最高使用压力/Highest Working Pressure	1.0MPa(10kgf/cm²)
环境及流体温度/Ambientand Fluid Temperature	5~60℃
*过滤精度/*Filter Precision	25 μ m
建议用油/Recommended Oil Use	透平1号油/Turbine No.1Oil ISOVG32
容器材料/Container Material	聚碳酸脂/Polycarbonate
防护罩/Protective Cover	AC1000~2000(无)/(Not Available) AC2500~5000(有)/(Available)
调压范围/Pressure Regulating Range	AC1000:0.05~0.7MPa(0.5~7kgf/cm²) AC2000~5000:0.05~0.85MPa(0.5~8.5kgf/cm²)
阀型/Valve Type	带溢流型/With Overflow

*还有5、50 μ m可供选择。/ *5,50 μ m available in addition

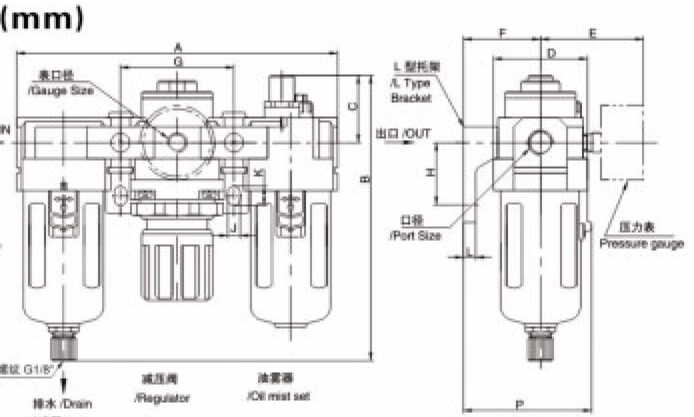
型号/Model		规格/Specifications							配件/Accessories	
		组件/Assembly			注2)额定流量 /Note 2) Rated Flow(L/min)	注3)接管口径 //Note 3) Port Size（G）	压力表口径 /Pressure Gauge Size	重 量 /Weight（kg）	托 架 /Bracket	压力表 /Pressure Gauge
手动放水型	注1)自动排水型	过滤器 /Filter	减压阀 /Regulator	油雾器/ Lubricator						
AC1000-M5	无	AF1000	AR1000	AL1000	90	M5	1/16	0.26	Y10L	G27-10-R1
AC2000-01	AC2000-01D	AF2000	AR2000	AL2000	500	1/8	1/8	0.74	Y20L	G36-10-01
AC2000-02	AC2000-02D					1/4				
AC2500-02	AC2500-02D	AF3000	AR2500	AL3000	1500	1/4	1/8	1.04	Y30L	
AC2500-03	AC2500-03D					3/8				
AC3000-02	AC3000-02D	AF3000	AR3000	AL3000	2000	1/4	1/8	1.18	Y30L	
AC3000-03	AC3000-03D					3/8				
AC4000-03	AC4000-03D	AF4000	AR4000	AL4000	4000	3/8	1/4	2.14	Y40L	G46-10-02
AC4000-04	AC4000-04D					1/2				
AC4000-06	AC4000-06D	AF4000-06	AR4000-06	AL4000-06	4500	3/4	1/4	2.47	Y50L	
AC5000-06	AC5000-06D	AF5000	AR5000	AL5000	5000	3/4	1/4	3.82	Y60L	
AC5000-10	AC5000-10D					1				

注1）AC2000有两种自动排水结构可选，脉冲式自动排水器为常规选型，还有杠杆式自动排水器可选，订货时用"D2"表示；AC2500~AC5000自动排水器结构以杠杆式为常规选型，还有浮球式自动排水器可选，详细说明请参阅自动排水器介绍。
注2）供应压力为0.7MPa(7.1kgf/cm²)设定压力为0.5MPa(5.1kgf/cm²)的情况下。
注3）接管口径另有Rc、NPT螺纹可供选择。
Note 1) There are 2 types auto drain for AC2000, pulsed type and lever type. "D" means normal auto drain, pulsed type ; "D2" means lever type auto drain. The normal auto drain for AC2500~AC5000 is lever type, but the float type auto drain is available for choose. Please check the details from AUTO DRAIN in page 55.
Note 2) The inlet pressure is 0.7Mpa(7.1kgf/cm²), the set pressure is 0.5Mpa(5.1kgf/cm²).
Note 3) Rc, NPT thread are available.

外形尺寸图/Overall Dimension Drawing (mm)



AC1000~2000



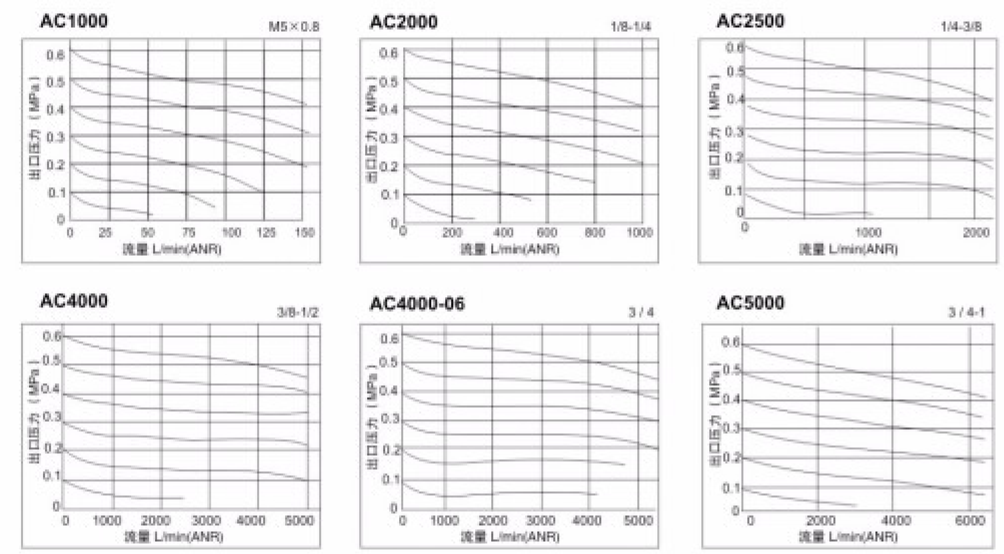
AC2500~5000

尺寸表/Dimension Sheet (mm)

型号Model	口径/Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	P	带自动排水器B	
AC1000	M5	91	91	25.5	25	26	25	33	20	4.5	7.5	5	38.5	无	
AC2000	1/8 ~ 1/4	140	122	38	40	57	30	50	24	5.5	8.5	5	50	145	*160
AC2500	1/4 ~ 3/8	181	158	38	53	61	41	64	35	7	11	7	70.5	172	
AC3000	1/4 ~ 3/8	181	158	38	53	61	41	64	35	7	11	7	70.5	172	
AC4000	3/8 ~ 1/2	238	191	41	70	66	50	84	40	9	13	7	88	196	
AC4000-06	3/4	253	191	40.5	70	70	50	89	40	9	13	7	88	196	
AC5000	3/4 ~ 1	300	268	48	90	76	70	105	50	12	16	10.5	115	273	

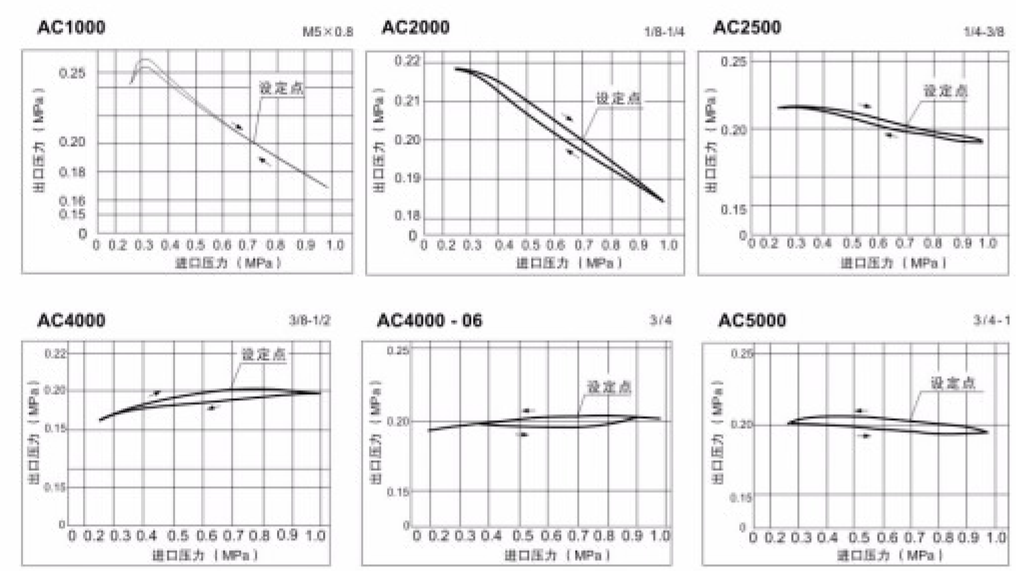
*标注尺寸为杠杆式自动放水器高度尺寸。*This size is for lever type auto drain.

流量特性曲线/Characteristic Curve of Flow Rate



进口压力/ Inlet PressureP₁= 0.7MPa

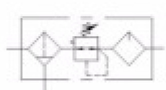
压力特性曲线/Characteristic Curve of Pressure



进口压力/ Inlet PressureP_1= 0.7MPa
出口压力/Outle tPressure P_2=0.2MPa
流量/Rate of Flow Q=20 L/min(ANR)

A系列气源处理组合元件(二联件) / A Seiries Combination Unit (FR+L)
AC1010~5010 系列/Series

符号/symbol



规格 /Specification

保证耐压力/Ensured Pressure Resistance	1.5MPa(15kgf/cm²)
最高使用压力/Highest Working Pressure	1.0MPa(10kgf/cm²)
环境及流体温度/Ambientand Fluid Temperature	5~60℃
*过滤精度/*Filter Precision	25 μ m
建议用油/Recommended Oil Use	透平1号油/Turbine No.1Oil ISOVG32
容器材料/Container Material	聚碳酸脂/Polycarbonate
防护罩/Protective Cover	AC1010~2010(无)/(Not Available) AC3010~5010(有)/(Available)
调压范围/Pressure Regulating Range	AC1010:0.05~0.7MPa(0.5~7kgf/cm²) AC2010~5010:0.05~0.85MPa(0.5~8.5kgf/cm²)
阀型/Valve Type	带溢流型/With Overflow

*还有5、50 μ m可供选择。/ *5,50 μ m available in addition

型号/Model		规格/Specifications						配件/Accessories	
		组件/Assembly		注2)额定流量 /Note 2) Rated Flow(L/min)	注3)接管口径 /Note 3) Port Size (G)	压力表口径 /Pressure Gauge Size	重 量 /Weight (kg)	托 架 /Bracket	压力表 /Pressure Gauge
手动放水型	注1)自动排水型	过滤减压阀/ Filter Regulator	油雾器/ Lubricator						
AC1010-M5	无	AW1000	AL1000	90	M5	1/16	0.22	Y10T	G27-10-R1
AC2010-01	AC2010-01D	AW2000	AL2000	500	1/8	1/8	0.66	Y20T	G36-10-01
AC2010-02	AC2010-02D				1/4				
AC3010-02	AC3010-02D	AW3000	AL3000	1700	1/4	1/8	0.98	Y30T	
AC3010-03	AC3010-03D				3/8				
AC4010-03	AC4010-03D	AW4000	AL4000	3000	3/8	1/4	1.93	Y40T	G46-10-02
AC4010-04	AC4010-04D				1/2				
AC4010-06	AC4010-06D	AW4000-06	AL4000-06	3000	3/4	1/4	1.99	Y50T	
AC5010-06	AC5010-06D	AW5000	AL5000	4000	3/4	1/4	3.20	Y60T	
AC5010-10	AC5010-10D				1				

注1）AC2010有两种自动排水结构可选，脉冲式自动排水器为常规选型，还有杠杆式自动排水器可选，订货时用"D2"表示；AC3010~AC5010自动排水器结构以杠杆式为常规选型。还有浮球式自动排水器可选，详细说明请参阅自动排水器介绍。

注2）供应压力为0.7MPa(7.1kgf/cm²)设定压力为0.5MPa(5.1kgf/cm²)的情况下。

注3）接管口径另有Rc、NPT螺纹可供选择。

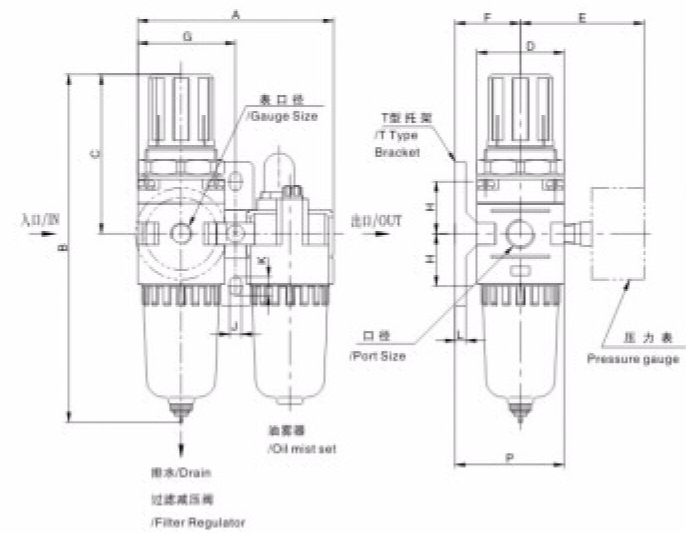
Note 1) There are 2 types auto drain for AC2010, pulsed type and lever type. "D" means normal auto drain, pulsed type; "D2" means lever type auto drain. The normal auto drain for AC3010~AC5010 is lever type, but the float type auto drain is available for choose. Please check the details from AUTO DRAIN in page 55.

Note 2) The inlet pressure is 0.7Mpa(7.1kgf/cm²), the set pressure is 0.5Mpa(5.1kgf/cm²).

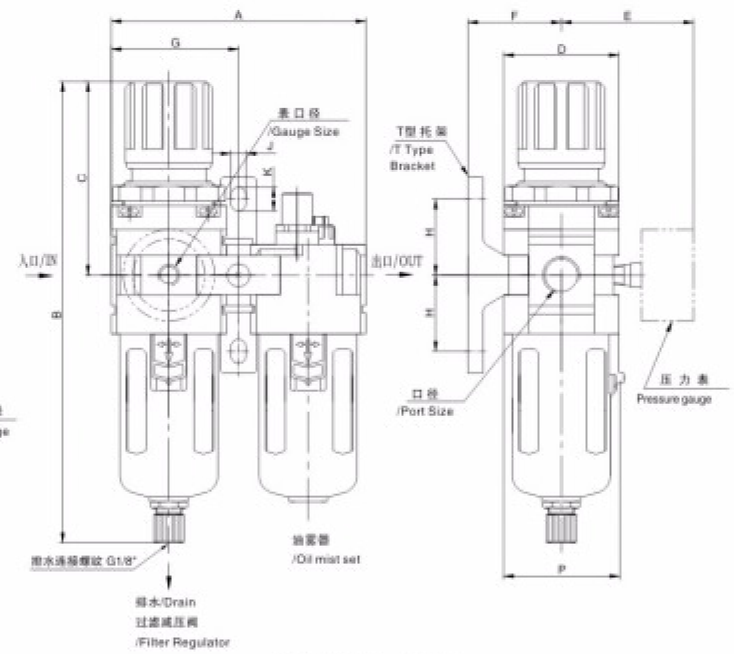
Note 3) Rc, NPT thread are available.

PNEUMATIC
A 系列气源处理元件 / A Series Air Treatment Units

外形尺寸图/Overall Dimension Drawing (mm)



AC1010~2010



AC3010~5010

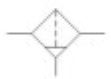
尺寸表/Dimension Sheet (mm)

型号Model	口径/Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	P	带自动排水器B	
AC1010	M5	58	113	50.5	25	26	25	29	20	4.5	7.5	5	38.5	无	
AC2010	1/8 ~ 1/4	90	158	78	40	56.8	30	45	24	5.5	8.5	5	50	182	*197
AC3010	1/4 ~ 3/8	117	208	92.5	53	60.8	41	58.5	35	7	11	7	70.5	223	
AC4010	3/8 ~ 1/2	154	256	112	70	70.5	50	77	40	9	13	7	88	262	
AC4010-06	3/4	164	261	114	70	70.5	50	82	40	9	13	7	88	266	
AC5010	3/4 ~ 1	195	338	116	90	75.5	69.8	97.5	50	12	16	10.5	115	343	

*标注尺寸为杠杆式自动放水器高度尺寸。*This size is for lever type auto drain.

A 系列空气过滤器 / A Series Air Filter
AF1000～5000系列/Series

符号/symbol



规格 /Specification

保证耐压力/Ensured Pressure Resistance	1.5MPa(15kgf/cm²)
最高使用压力/Highest Working Pressure	1.0MPa(10kgf/cm²)
环境及流体温度/Ambientand Fluid Temperature	5~60℃
*过滤精度/*Filter Precision	25 μ m
*滤芯材质/*Filter material	铜/Brass
容器材料/Container Material	聚碳酸脂/Polycarbonate
防护罩/Protective Cover	AF1000~2000无/No AF3000~5000有/Available

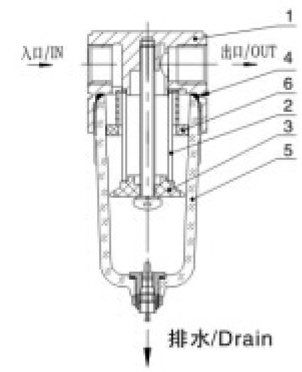
*还有5、50 μ m可供选择 / *5,50 μ m available in addition. **还有PE材质滤芯可供选择/ **PE material filter element is available.

型号 Model	规格/Specifications				配件/ Accessories	放水器功能/ Drain Function	注1)自动排水型号/ AutoDrainModel
	注2)额定流量 Note 2) / Rated Flow(L/min)	注3)接管口径 Note 3) / Port Size（G）	杯容量(cm³) /Bowl Capacity	重 量 /Weight（kg）	托 架 /Bracket		
AF1000-M5	110	M5	4	0.07	-	手动排水 /Manual Drain	无
AF2000-01	750	1/8	15	0.19	B240		AF2000-01D
AF2000-02		1/4					AF2000-02D
AF3000-02	1500	1/4	20	0.29	B340	a.停气排水 /Air Shutoff Drain b.手动排水 /Manual Drain	AF3000-02D
AF3000-03		3/8					AF3000-03D
AF4000-03	4000	3/8	45	0.55	B440		AF4000-03D
AF4000-04		1/2					AF4000-04D
AF4000-06	6000	3/4	45	0.58	B540		AF4000-06D
AF5000-06	7000	3/4	130	1.08	B640		AF5000-06D
AF5000-10		1					AF5000-10D

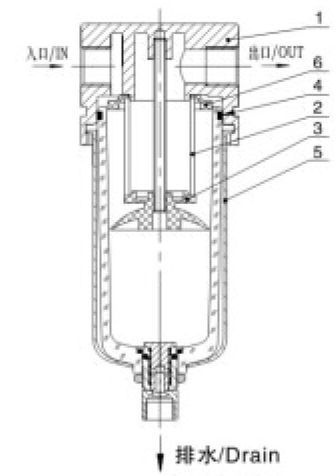
注1）AF2000有两种自动排水结构可选，脉冲式自动排水器为常规选型，还有杠杆式自动排水器可选，订货时用"D2"表示,如：AF2000-02D2;
AF3000~AF5000自动排水器结构以杠杆式为常规选型，还有浮球式自动排水器可选，详细说明请参阅自动排水器介绍。
注2）供应压力为0.7MPa(7.1kgf/cm²)的情况下.
注3）接管口径另有Rc、NPT螺纹可供选择。

Note 1) There are 2 types auto drain for AF2000, pulsed type and lever type. "D" means normal auto drain, pulsed type; "D2" means lever type auto drain. For Example:AF2000-02D2.
The normal auto drain for AF3000~AF5000 is lever type, but the float type auto drain is available for choose. Please check the details from AUTO DRAIN in page 55.
Note 2) The inlet pressure is 0.7Mpa(7.1kgf/cm²).
Note 3) Rc, NPT thread are available.

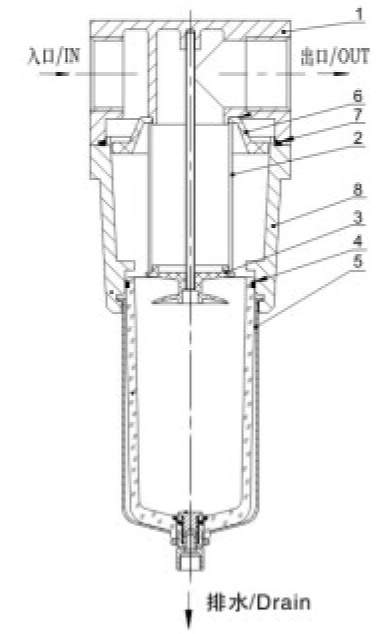
结构简图 /零件表 Structural Diagram/List of Components



AF1000~2000



AF3000~4000

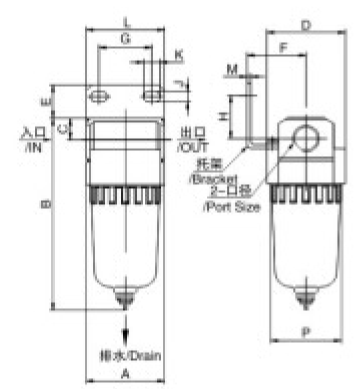


AF5000

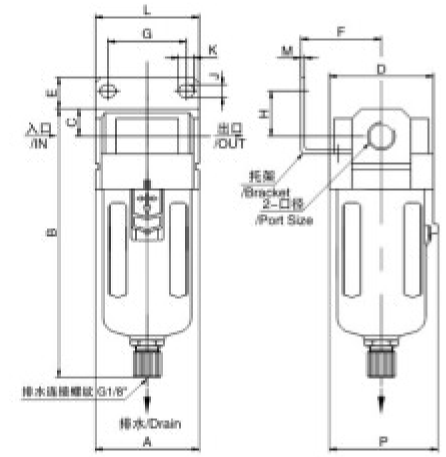
主零件/ Main Parts

序号/No.	名称/Denomination	材 料/Material
1	阀体/Valve Body	铝压铸件/Aluminum Die Casting
2	滤芯/FilterElement	铜/Brass
3	滴水板/Drain Board	ABS
4	O形圈/O-ring	橡胶/Rubber
5	存水杯(防护罩)/Water Storage Cup(Protective Cover)	聚碳酸脂(冷轧板)/Polycarbonate(Cold Rolled Sheet)
6	旋风叶片/Whirlwind Blade	ABS
7	O形圈/O-ring	橡胶/Rubber
8	中间体/Middle Part	铝压铸件/Aluminum Die Casting

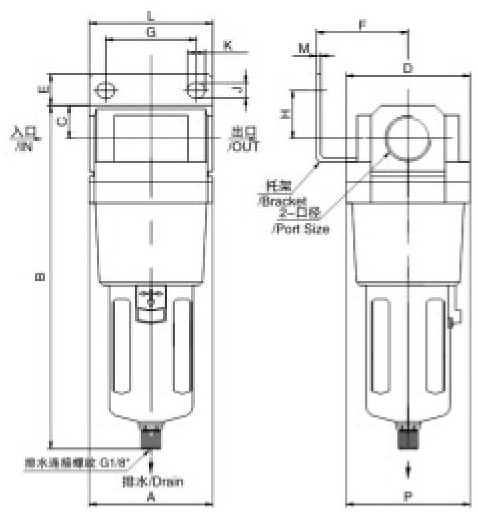
外形尺寸图 /Overall Dimension Drawing (mm)



AF1000~2000



AF3000~4000



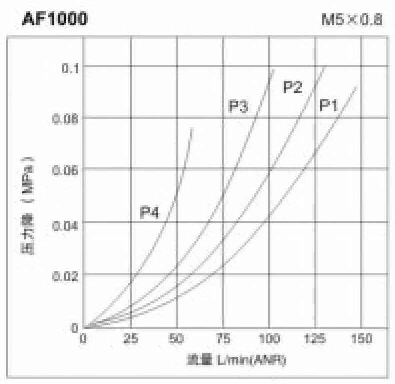
AF5000

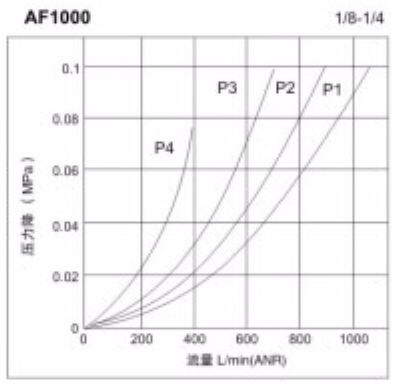
尺寸表/Dimension Sheet (mm)

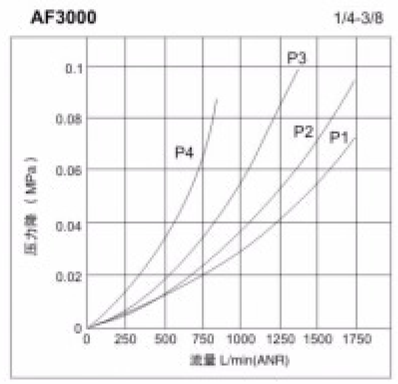
型号Model	口径/Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	M	P	带自动排水器B
AF1000	M5	25	72	7	25	–	–	–	–	–	–	–	–	26.5	无
AF2000	1/8～1/4	40	97.5	11	40	17	30	27	22	5.4	8.4	40	2.3	40	119 *134
AF3000	1/4～3/8	53	132.5	14	53	16	41	40	23	6.5	8	53	2.3	56	148
AF4000	3/8～1/2	70	168.5	18	70	17	50	54	26	8.5	10.5	70	2.3	73	173
AF4000-06	3/4	75	172.5	20	70	14	50	54	25	8.5	10.5	70	2.3	73	177
AF5000	3/4～1	90	247.5	24	90	23	66.5	66	35	11	13	90	3.2	90	252

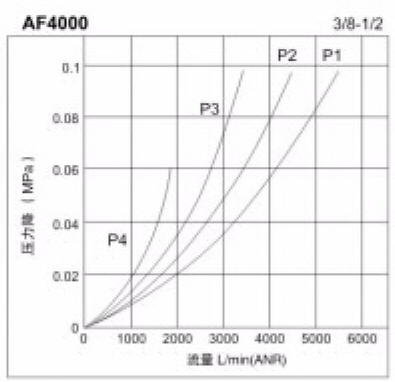
*标注尺寸为杠杆式自动放水器高度尺寸。*This size is for lever type auto drain.

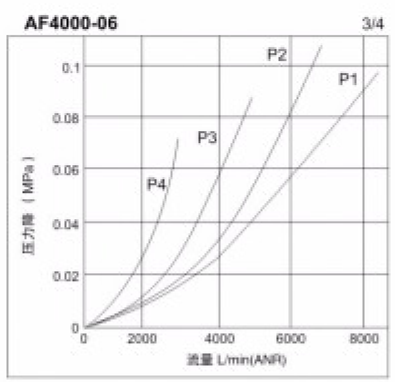
流量特性曲线/Characteristic Curve of Flow Rate

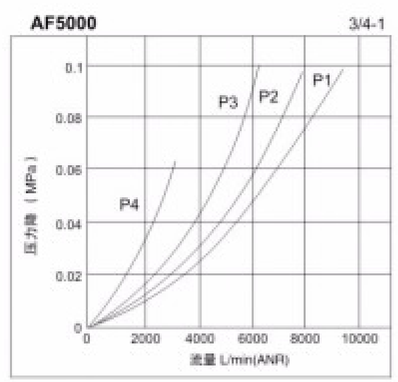








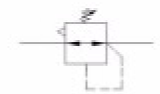




注：P1=0.7MPa P2=0.5MPa P3=0.3MPa P4=0.1MPa

A 系列减压阀 / A Series Air Regulator
AR1000～5000系列/Series

符号/symbol



规格 /Specification

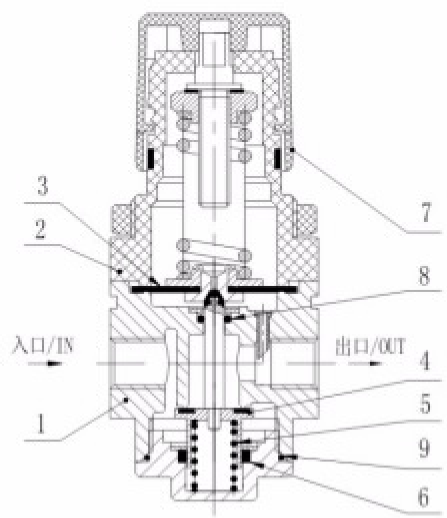
保证耐压力/Ensured Pressure Resistance	1.5MPa(15kgf/cm²)
最高使用压力/Highest Working Pressure	1.0MPa(10kgf/cm²)
* 调压范围/Pressure Regulating Range	AR1000:0.05~0.7MPa(0.5~7kgf/cm²) AR2000~5000:0.05~0.85MPa(0.5~8.5kgf/cm²)
环境及流体温度/Ambientand Fluid Temperature	5~60℃
阀型/Valve Type	带溢流型/With Overflow

*还有调压范围0.02~0.2MPa(0.2~2kgf/cm²) / *Pressure range 0.02~0.2MPa(0.2~2kgf/cm²) is available

型号 Model	规格/Specifications				配件/Accessories	
	注1）额定流量 Note 1) /Rated Flow (L/min)	注2）接管口径 Note 1) /Port Size (G)	压力表口径 /Pressure Gauge Size	重量 /Weight (kg)	托架 /Bracket	压力表 /Pressure Gauge
AR1000-M5	100	M5	1/16	0.08	B120	G27-10-R1
AR2000-01	550	1/8	1/8	0.27	B220	G36-10-01
AR2000-02		1/4				
AR2500-02	2000	1/4	1/8	0.27	B220	G36-10-01
AR2500-03		3/8				
AR3000-02	2500	1/4	1/8	0.41	B320	
AR3000-03		3/8				
AR4000-03	6000	3/8	1/4	0.84	B420	G46-10-02
AR4000-04		1/2				
AR4000-06	6000	3/4	1/4	0.94		
AR5000-06	8000	3/4	1/4	1.19		
AR5000-10		1				

注1）供应压力为0.7MPa(7.1kgf/cm²)设定压力为0.5MPa(5.1kgf/cm²)的情况下。
Note 1) Under the circumstance that the supply pressure is 0.7MPa(7.1kgf/cm²)and set pressure is 0.5MPa(5.1kgf/cm²).
注2）接管口径另有Rc、NPT螺纹可供选择 / Note 2) Rc.and NPT port size are available.

结构简图/零件表 Structural Diagram/List of Components

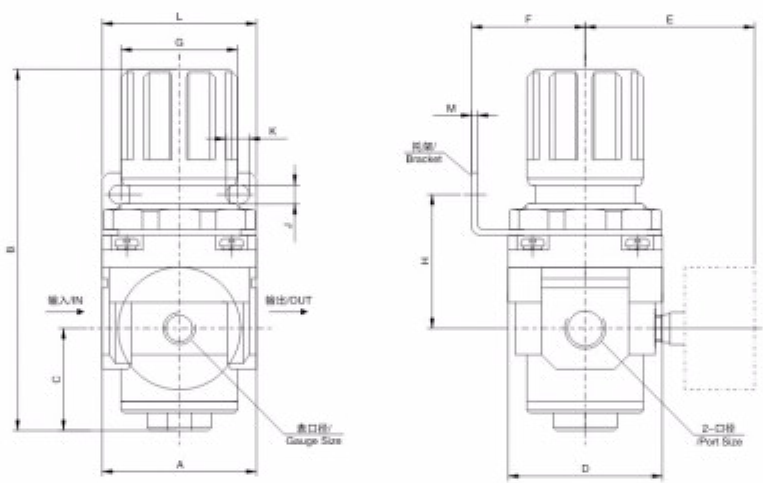


主零件/Main Parts

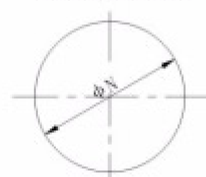
AR1000~5000

序号 /No.	名称/ Denomination	材料/Material		
		AR1000	AR2000~3000	AR4000~5000
1	阀体/Valve Body	锌压铸件/Zinc Die Casting	铝压铸件/Aluminum Die Casting	
2	阀盖/Valve Cover	增强尼龙/Reinforced Nylon		铝压铸件/Aluminum Die Casting
3	膜片/Film	橡胶/Rubber		
4	阀芯/Valve Core	黄铜、橡胶/Brass,Rubber		
5	弹簧/Spring	不锈钢/Stainless Steel		
6	O形圈/O-ring	橡胶/Rubber		
7	手轮/Hand Wheel	增强尼龙/Reinforced Nylon		
8	O形圈/O-ring	橡胶/Rubber		
9	O形圈/O-ring	橡胶/Rubber		

外形尺寸图 /Overall Dimension Drawing (mm)



面板切削孔
Panel Cut Hole

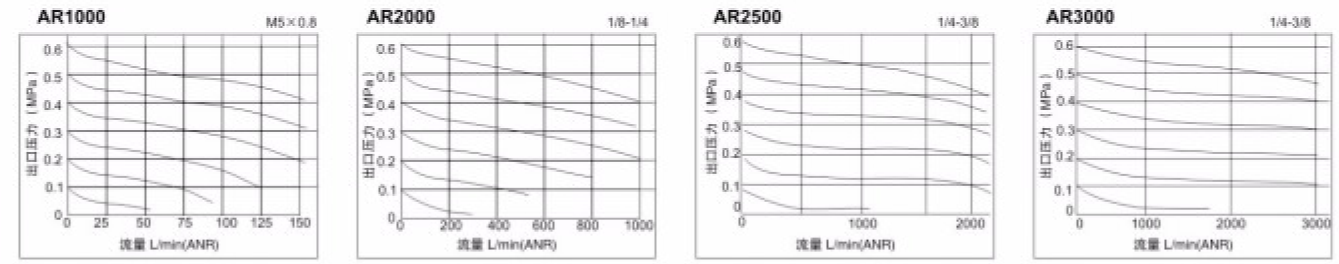


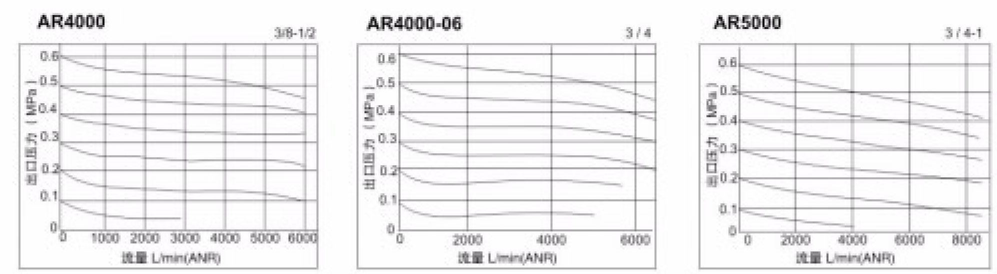
AR1000~3000:
最大厚度/Max thickness 3.5
AR4000~5000:
最大厚度/Max thickness 5

AR1000~5000

型号Model	口径/Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	M	N
AR1000	M5	25	61.5	11	25	26	25	28	30	4.5	6.5	40	2	20.5
AR2000	1/8 ~ 1/4	40	95	17	40	56.8	30	34	44	5.4	15.4	55	2.3	33.5
AR2500	1/4 ~ 3/8	53	102.5	25	48	60.8	30	34	44	5.4	15.4	55	2.3	33.5
AR3000	1/4 ~ 3/8	53	127.5	35	53	60.8	39	40	46	6.5	8	53	2.3	42.5
AR4000	3/8 ~ 1/2	70	149.5	37.5	70	65.5	49.2	54	54	8.5	10.5	70	2.3	52.5
AR4000-06	3/4	75	154	40.5	70	69.5	49.2	54	55.5	8.5	10.5	70	2.3	52.5
AR5000	3/4 ~ 1	90	168	48	90	75.5	49.2	54	62	8.5	10.5	70	2.3	52.5

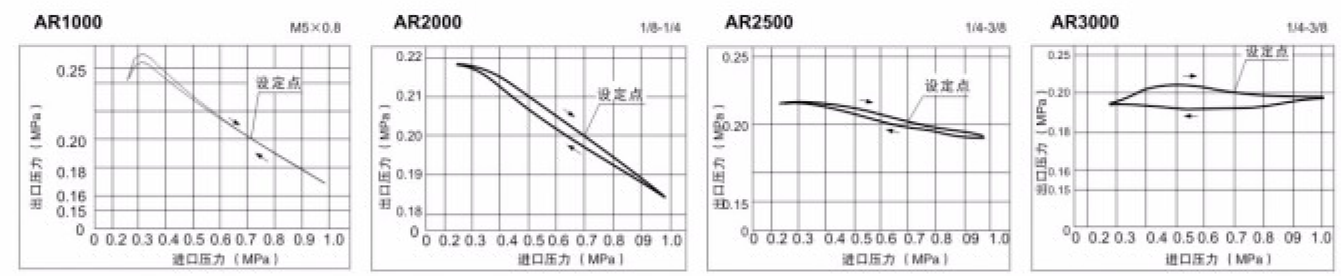
流量特性曲线/Characteristic Curve of Flow Rate

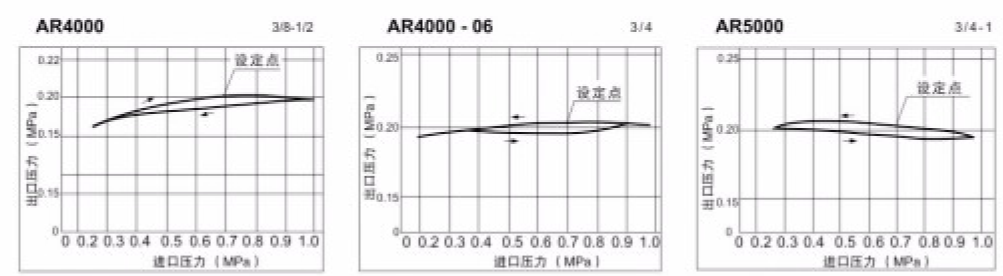




进口压力/ Inlet PressureP_1= 0.7MPa

压力特性曲线/Characteristic Curve of Pressure





进口压力/ Inlet PressureP_1= 0.7MPa
出口压力/Outle tPressure P_2=0.2MPa
流量/Rate of Flow Q=20 L/min(ANR)

A 系列油雾器 / A Series Air Lubricator
AL1000～5000系列/Series

符号/symbol 

规格 /Specification

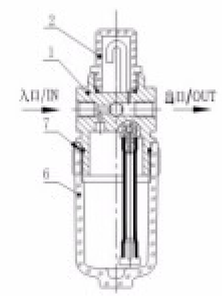
保证耐压力/Ensured Pressure Resistance	1.5MPa(15kgf/cm²)
最高使用压力/Highest Working Pressure	1.0MPa(10kgf/cm²)
环境及流体温度/Ambientand Fluid Temperature	5~60℃
建议用油/Recommended Oil Use	透平1号油/Turbine No.1Oil ISOVG32
容器材料/Container Material	聚碳酸脂/Polycarbonate
防护罩/Protective Cover	AL1000~2000(无)/(Not Available) AL3000~5000(有)/(Available)

型号 Model	规格/Specifications					配件/Accessories
	*油滴最小流量 Minimal Flow of Oil Drop(L/min)	**额定流量 /Rated Flow (L/min)	***接管口径 /Port Size (G)	杯容量(cm³) /Bowl Capacity	重 量 /Weight (kg)	托 架 /Bracket
AL1000–M5	4	95	M5	7	0.07	–
AL2000–01	15	800	1/8	25	0.22	B240
AL2000–02			1/4			
AL3000–02	30	1700	1/4	50	0.30	B340
AL3000–03	40		3/8			
AL4000–03	40	5000	3/8	130	0.56	B440
AL4000–04	50		1/2			
AL4000–06	50	6300	3/4	130	0.58	B540
AL5000–06	190	7000	3/4	130	1.08	B640
AL5000–10			1			

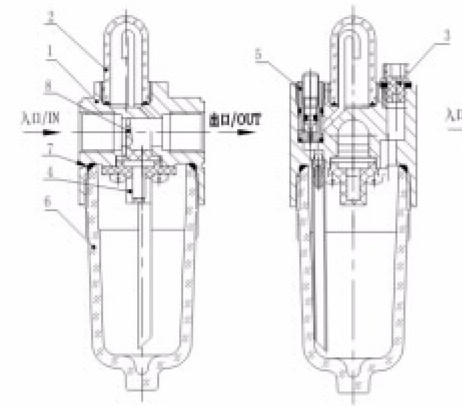
*供应压力为0.5MPa(5.1kgf/cm²)，油滴流量为5滴/分钟，透平1号油(ISOVG32)温度20℃情况下。
*Under the circumstance that the supply pressure is 0.5MPa(5.1kgf/cm²),oil drop flow is 5 drops/minute,use of Turbine No.1 Oil and 20℃ temperaure.
**供应压力为0.5MPa(5.1kgf/cm²)，压降为0.03MPa(0.3kgf/cm²)情况下。
**Under the circumstance that the supply pressure is 0.5MPa(5.1kgf/cm²) and step down is 0.3MPa(0.3kgf/cm²)
***接管口径另有Rc、NPT ,螺纹可供选择。
***Rc.and NPT port size are available.

PNEUMATIC
A 系列气源处理元件 / A Series Air Treatment Units

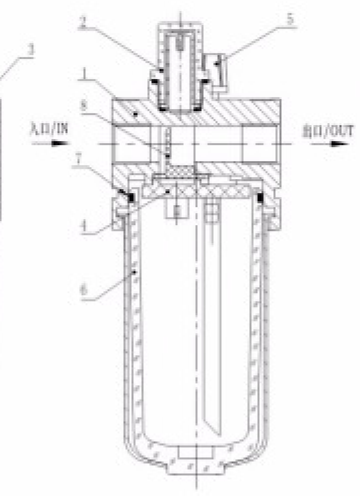
结构简图/零件表 Structural Diagram/ List of Components



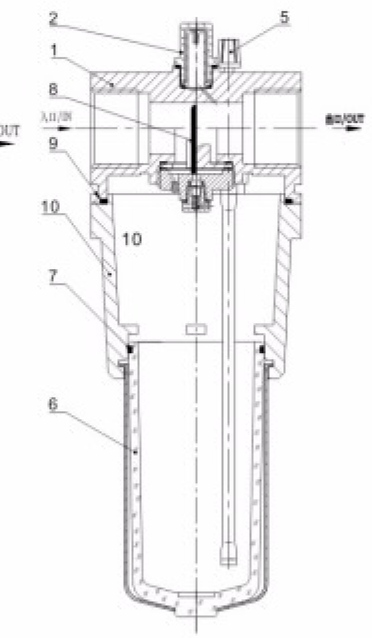
AL1000



AL2000



AL3000~4000

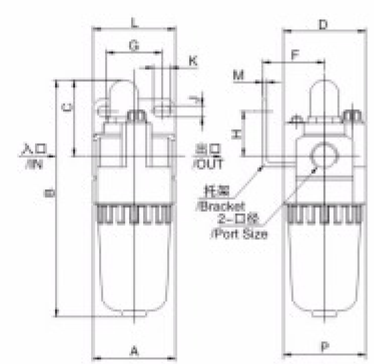


AL5000

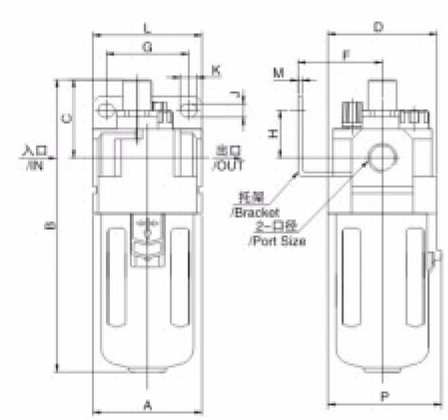
主零件/Main Parts

序号 /No.	名称/ Denomination	材料/Material		
		AL1000	AL2000–4000	AL5000
1	阀体/Valve Body	锌压铸件/Zinc Die Casting	铝压铸件/Aluminum Die Casting	
2	油窗/Oil Window	聚碳酸脂/Polycarbonate		
3	加油螺塞/Oil Feed Plug	ABS		
4	导向档板/Guide Retainer	ABS		
5	调油手柄/Oil Adjusting Handle	ABS		
6	油杯(防护罩)/Oil cup (Protective Cover)	聚碳酸脂(冷轧板)/Polycarbonate(Cold Rolled Sheet)		
7	O形圈/O–ring	橡胶/Rubber		
8	挡板/Retainer	聚胺脂/Polyurethane		
9	O形圈/O–ring	橡胶/Rubber		
10	中间体/Middle Part	铝压铸件/Aluminum Die Casting		

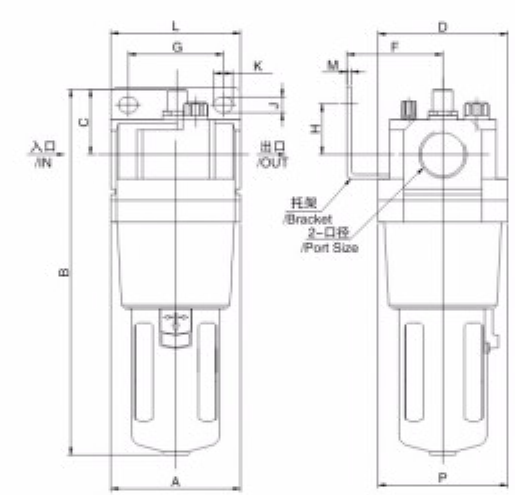
外形尺寸图/overall dimension drawing(mm)



AL1000~2000



AL3000~4000



AL5000

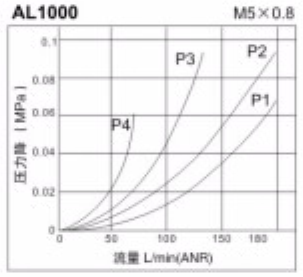
尺寸表/Dimension Sheet (mm)

型号Model	口径/Port Size(G)	A	B	C	D	F	G	H	J	K	L	M	N
AL1000	M5	25	81.5	25.5	25	–	–	–	–	–	–	–	27
AL2000	1/8～1/4	40	118	38	40	30	27	22	5.4	8.4	40	2.3	40
AL3000	1/4～3/8	53	142	38	53	41	40	23	6.5	8	53	2.3	56
AL4000	3/8～1/2	70	177	41	70	50	54	26	8.5	10.5	70	2.3	73
AL4000–06	3/4	75	177	39	70	50	54	25	8.5	10.5	70	2.3	73
AL5000	3/4～1	90	254	45	90	66.5	66	35	11	13	90	3.2	90

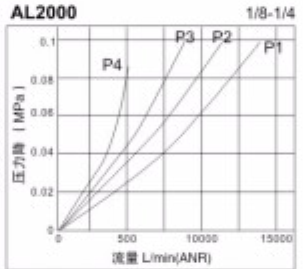
*标注尺寸为杠杆式自动放水器高度尺寸。*This size is for lever type auto drain.

流量特性曲线 /Characteristic Curve of Flow Rate

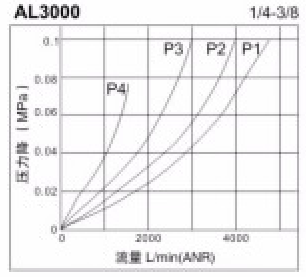
AL1000 M5×0.8



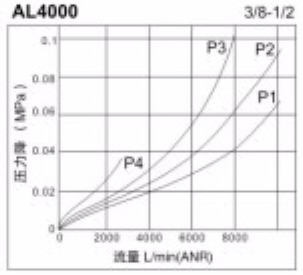
AL2000 1/8-1/4



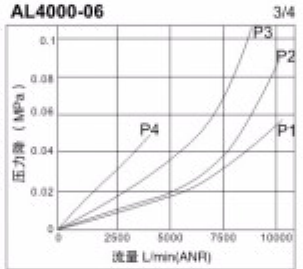
AL3000 1/4-3/8



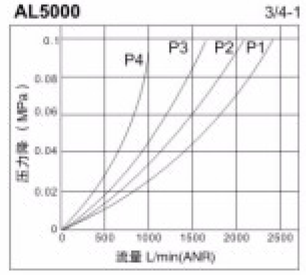
AL4000 3/8-1/2



AL4000-06 3/4

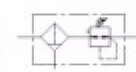


AL5000 3/4-1



注：P1=0.7MPa P2=0.5MPa P3=0.3MPa P4=0.1MPa

A 系列过滤减压阀 / A Series Filter Regulator
AW1000～5000系列/Series

符号/symbol 

规格 /Specification

保证耐压力/Ensured Pressure Resistance	1.5MPa(15kgf/cm^2)
最高使用压力/Highest Working Pressure	1.0MPa(10kgf/cm^2)
环境及流体温度/Ambientand Fluid Temperature	5~60℃
*过滤精度/*Filter Precision	25 μ m
容器材料/Container Material	聚碳酸脂/Polycarbonate
防护罩/Protective Cover	AW1000~2000(无)/(Not Available) AW3000~5000(有)/(Available)
调压范围/Pressure Regulating Range	AW1000:0.05~0.7MPa(0.5~7kgf/cm^2) AW2000~5000:0.05~0.85MPa(0.5~8.5kgf/cm^2)
阀型/Valve Type	带溢流型/With Overflow

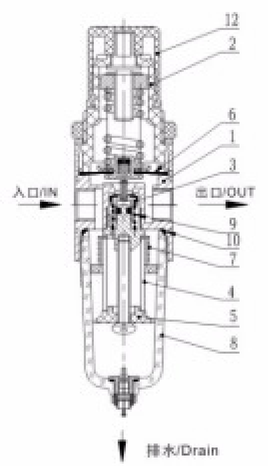
*还有5、50 μ m可供选择。/ *5,50 μ m available in addition

型号 Model	规格/Specifications				配件/Accessories		放水器功能/ Drain Function	注1)自动排水型号/ /Note 1)Auto Drain Model
	注2）额定流量 /Note 2)Rated Flow（L/min）	注3）接管口径 /Note 3)Port Size（G）	压力表口径 /Pressure Gauge Size	重 量 /Weight（kg）	托 架 /Bracket	压力表 /Pressure Gauge		
AW1000–M5	100	M5	1/16	0.09	B120	G27–10–R1	手动排水 /Manual Drain	
AW2000–01	550	1/8	1/8	0.36	B220	G36–10–01		AW2000–01D
AW2000–02		1/4						AW3000–02D
AW3000–02	2000	1/4	1/8	0.56	B320		a.停气排水 /Air Shutoff Drain b.手动排水 /Manual Drain	AW3000–02D
AW3000–03		3/8						AW3000–03D
AW4000–03	4000	3/8	1/4	1.15	B420	G46–10–02		AW4000–03D
AW4000–04		1/2						AW4000–04D
AW4000–06	4500	3/4	1/4	1.21				AW4000–06D
AW5000–06	5500	3/4	1/4	1.70				AW5000–06D
AW5000–10		1						AW5000–10D

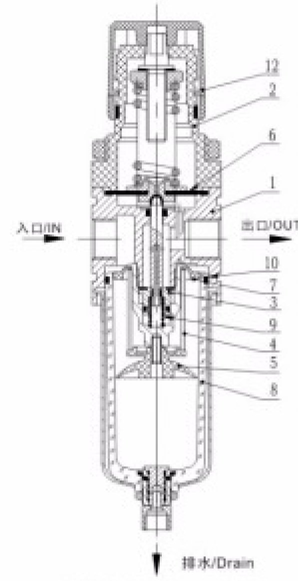
注1）AW2000有两种自动排水结构可选，脉冲式自动排水器为常规选型，还有杠杆式自动排水器可选，订货时用"D2"表示,如：AW2000–02D2;
AW3000–AW5000自动排水器结构以杠杆式为常规选型，还有浮球式自动排水器可选，详细说明请参阅自动排水器介绍。
注2）供应压力为0.7MPa(7.1kgf/cm^2)设定压力为0.5MPa(5.1kgf/cm^2)的情况下。
注3）接管口径另有Rc、NPT螺纹可供选择。

Note 1) There are 2 types auto drain for AW2000, pulsed type and lever type. "D" means normal auto drain, pulsed type; "D2" means lever type auto drain. For Example:AW2000–02D2.
The normal auto drain for AW3000–AW5000 is lever type, but the float type auto drain is available for choose. Please check the details from AUTO DRAIN in page 55.
Note 2) Under the circumstance that the supply pressure is 0.7MPa(7.1kgf/cm^2)and set pressure is 0.5MPa(5.1kgf/cm^2).
Note 3) Rc, NPT thread are available.

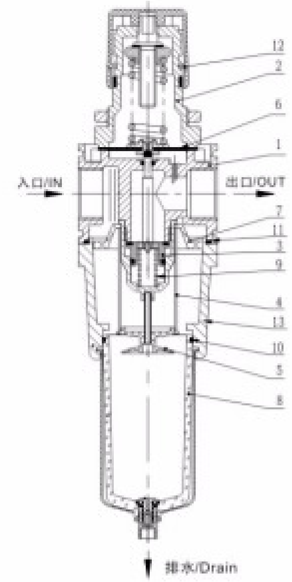
结构简图/零件表 Structural Diagram /List of Components



AW1000~2000



AW3000~4000

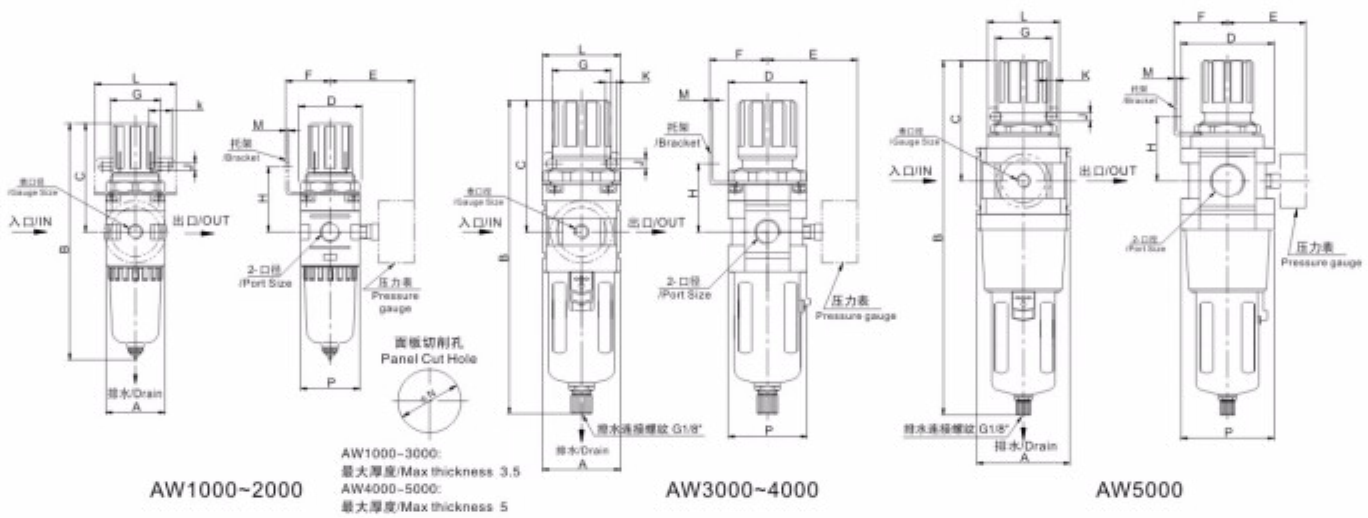


AW5000

主零件/Main Parts

序号 /No.	名称/ Denomination	材料/Material		
		AW1000	AW2000~4000	AW4000~5000
1	阀体/Valve Body	锌压铸件/Zinc Die Casting	铝压铸件/Aluminum Die Casting	
2	阀盖/Valve Cover	增强尼龙/Reinforced Nylon		铝压铸件/Aluminum Die Casting
3	阀芯组件/Valve Core Assembly	黄铜、橡胶/Brass,Rubber		
4	滤芯/Filter Element	黄铜/Brass		
5	滴水板/Drain Board	ABS		
6	膜片/Film	橡胶/Rubber		
7	旋风叶片/Whirlwind Blade	ABS		
8	存水杯(防护罩)/Water Storage Cup(Protective Cover)	聚碳酸脂(冷轧板)/Polycarbonate(Cold Rolled Sheet)		
9	弹簧/Spring	不锈钢/Stainless Steel		
10	O形圈/O–ring	橡胶/Rubber		
11	O形圈/O–ring	橡胶/Rubber		
12	手轮/Hand Wheel	增强尼龙/Reinforced Nylon		
13	中间体/Middle Part	铝压铸件/Aluminum Die Casting		

外形尺寸图 /Overall Dimension Drawing (mm)



AW1000~2000　　AW3000~4000　　AW5000

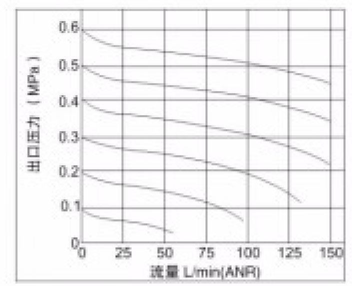
尺寸表/Dimension Sheet (mm)

型号Model	口径/Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	M	N	P	带自动排水器B	
AW1000	M5	25	113	50.5	25	26	25	28	30	4.5	6.5	40	2	20.5	28	无	
AW2000	1/8 ~ 1/4	40	158	78	40	56.8	30	34	43.5	5.4	15.4	55	2.3	33.5	40	182	*197
AW3000	1/4 ~ 3/8	53	208	92.5	53	60.8	39	40	46	6.5	8	53	2.3	42.5	56	223	
AW4000	3/8 ~ 1/2	70	256	112	70	70.5	49.2	54	53.5	8.5	10.5	70	2.3	52.5	73	262	
AW4000–06	3/4	75	261	114	70	70.5	49.2	54	55.5	8.5	10.5	70	2.3	52.5	73	266	
AW5000	3/4 ~ 1	90	338	116	90	75.5	49.2	54	62	8.5	10.5	70	2.3	52.5	90	343	

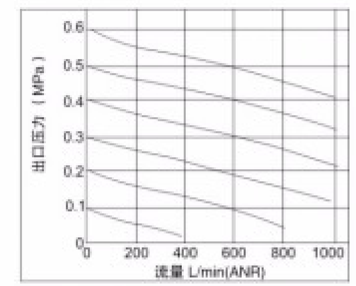
*标注尺寸为杠杆式自动放水器高度尺寸。*This size is for lever type auto drain.

流量特性曲线 / Characteristic Curve of Flow Rate

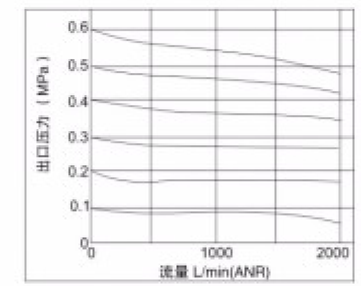
AW1000 M5×0.8



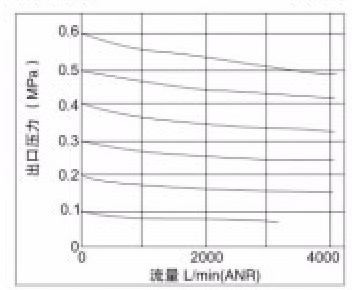
AW2000 1/8-1/4



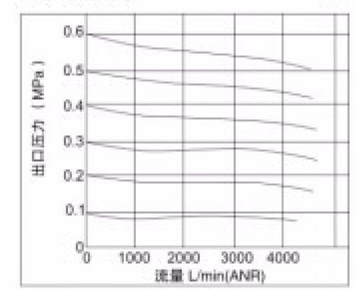
AW3000 1/4-3/8



AW4000 3/8-1/2



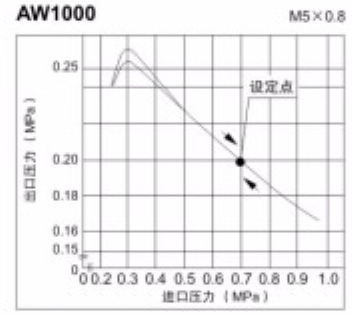
AW4000-06 3/4



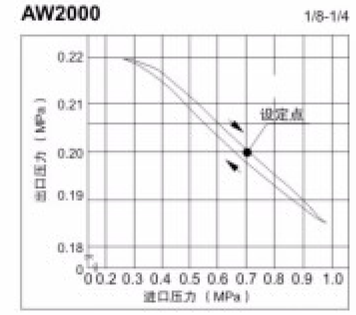
进口压力/Inlet Pressure P_1=0.7 MPa

压力特性曲线 / Characteristic Curve of Pressure

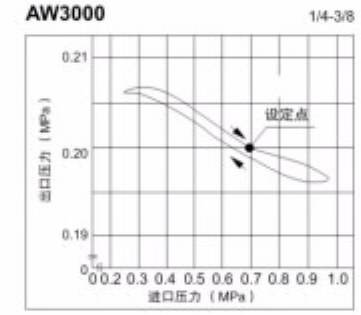
AW1000 M5×0.8



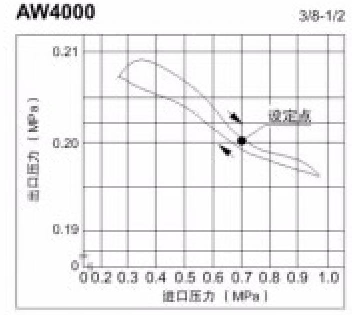
AW2000 1/8-1/4



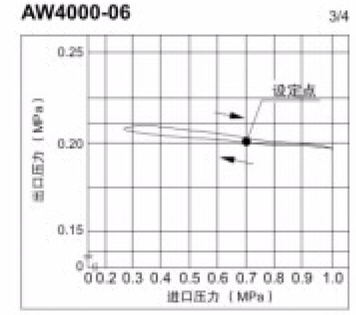
AW3000 1/4-3/8



AW4000 3/8-1/2



AW4000-06 3/4



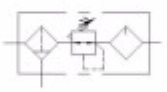
进口压力/Inlet Pressure P_1=0.7 MPa

出口压力/Outlet Pressure P_2=0.2 MPa

流量/Rate of Flow Q=20 L/min(ANR)

HA 系列气源处理组合元件(三联件) / HA Seiries Combination Unit (F+R+L)
HAC2000~5000 系列/Series



符号/symbol 

特性/Features: 此款产品在过滤器放水装置处安装一快插接头，用户可以在此处接入塑料管，将过滤器产生的污水排放到指定位置，起到保护现场环境的作用。This product a quick plug connector at the water filter device, the user can access plastic pipe, here will filter the wastewater discharge to the designated location, have the effect of protecting the environment.

规格 /Specification

保证耐压力/Ensured Pressure Resistance	1.5MPa(15kgf/cm^2)
最高使用压力/Highest Working Pressure	1.0MPa(10kgf/cm^2)
环境及流体温度/Ambientand Fluid Temperature	5~60℃
*过滤精度/*Filter Precision	25 μ m
建议用油/Recommended Oil Use	透平1号油/TurbineNo.1Oil ISOVG32
容器材料/Container Material	聚碳酸脂/Polycarbonate
防护罩/Protective Cover	有/Available
调压范围/Pressure Regulating Range	0.05~0.85MPa(0.5~8.5kgf/cm^2)
阀型/Valve Type	带溢流型/With Overflow

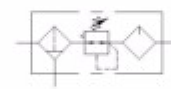
*还有5、50 μ m可供选择。/ *5,50 μ m available in addition

型号 Model	规格/Specifications							配件/Accessories	
	组件/Assembly			*额定流量 /Rated Flow (L/min)	**接管口径 /Port Size (G)	压力表口径 /Pressure Gauge Size	重 量 /Weight (kg)	托 架 /Bracket	压力表 /Pressure Gauge
	过滤器 /Filter	减压阀 /Regulator	油雾器 /Mist Separator						
HAC2000-01	HAF2000	AR2000	HAL2000	500	1/8	1/8	0.74	Y20L	G36-10-01
HAC2000-02					1/4				
HAC2500-02	HAF3000	AR2500	HAL3000	1500	1/4	1/8	1.04	Y30L	
HAC2500-03					3/8				
HAC3000-02	HAF3000	AR3000	HAL3000	2000	1/4	1/8	1.18	Y30L	
HAC3000-03					3/8				
HAC4000-03	HAF4000	AR4000	HAL4000	4000	3/8	1/4	2.14	Y40L	G46-10-02
HAC4000-04					1/2				
HAC4000-06	HAF4000-06	AR4000-06	HAL4000-06	4500	3/4	1/4	2.47	Y50L	
HAC5000-06	HAF5000	AR5000	HAL5000	5000	3/4	1/4	3.82	Y60L	
HAC5000-10					1				

*供应压力为0.7MPa(7.1kgf/cm^2)设定压力为0.5MPa(5.1kgf/cm^2)的情况下。 *Under the circumstance that the supply pressure is 0.7MPa(7.1kgf/cm^2)and set pressure is 0.5MPa(5.1kgf/cm^2)
**接管口径另有Rc、NPT螺纹可供选择 / Rc.and NPT port size are available.

HA 系列气源处理组合元件(二联件)/ HA Seiries Combination Unit (FR+L)
HAC2010~5010 系列/Series



符号/symbol 

规格 /Specification

保证耐压力/Ensured Pressure Resistance	1.5MPa(15kgf/cm^2)
最高使用压力/Highest Working Pressure	1.0MPa(10kgf/cm^2)
环境及流体温度/Ambientand Fluid Temperature	5~60℃
*过滤精度/*Filter Precision	25 μ m
建议用油/Recommended Oil Use	透平1号油/TurbineNo.1Oil ISOVG32
容器材料/Container Material	聚碳酸脂/Polycarbonate
防护罩/Protective Cover	有/Available
调压范围/Pressure Regulating Range	0.05~0.85MPa(0.5~8.5kgf/cm^2)
阀型/Valve Type	带溢流型/With Overflow

*还有5、50 μ m可供选择。/ *5,50 μ m available in addition

型号 Model	规格/Specifications						配件/Accessories	
	组件/Assembly		*额定流量 /Rated Flow (L/min)	**接管口径 /Port Size (G)	压力表口径 /Pressure Gauge Size	重 量 /Weight (kg)	托 架 /Bracket	压力表 /Pressure Gauge
	过滤减压阀 / Filter Regulator	油雾器 /Mist Separator						
HAC2010-01	HAW2000	HAL2000	500	1/8	1/8	0.66	Y20T	G36-10-01
HAC2010-02				1/4				
HAC3010-02	HAW3000	HAL3000	1700	1/4	1/8	0.98	Y30T	
HAC3010-03				3/8				
HAC4010-03	HAW4000	HAL4000	3000	3/8	1/4	1.93	Y40T	G46-10-02
HAC4010-04				1/2				
HAC4010-06	HAW4000-06	HAL4000-06	3000	3/4	1/4	1.99	Y50T	
HAC5010-06	HAW5000	HAL5000	4000	3/4	1/4	3.20	Y60T	
HAC5010-10				1				

*供应压力为0.7MPa(7.1kgf/cm^2)设定压力为0.5MPa(5.1kgf/cm^2)的情况下。*Under the circumstance that the supply pressure is 0.7MPa(7.1kgf/cm^2)and set pressure is 0.5MPa(5.1kgf/cm^2)
**接管口径另有Rc、NPT螺纹可供选择 / Rc.and NPT port size are available.

HA 系列空气过滤器 / HA Series Air Filter
HAF2000~5000系列/Series

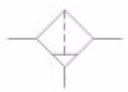
规格 /Specification

保证耐压力/Ensured Pressure Resistance	1.5MPa(15kgf/cm²)
最高使用压力/Highest Working Pressure	1.0MPa(10kgf/cm²)
环境及流体温度/Ambientand Fluid Temperature	5~60℃
*过滤精度/*Filter Precision	25 μ m
**滤芯材质/*Filter material	铜/Brass
容器材料/Container Material	聚碳酸脂/Polycarbonate
防护罩/Protective Cover	有/Available

*还有5、50 μ m可供选择 / *5,50 μ m available in addition

**还有PE材质滤芯可供选择/ **PE material filter element is available.

符号/symbol

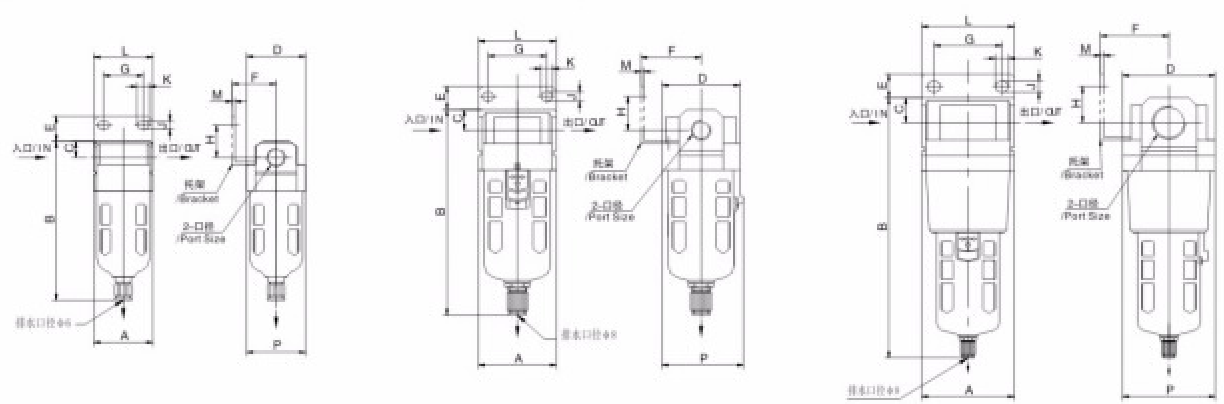


型号 Model	规格/Specifications				配件/Accessories	放水器功能/Drain Function	自动排水型号/AutoDrainModel
	*额定流量 /Rated Flow (L/min)	**接管口径 /Port Size (G)	杯容量(cm³) /Bowl Capacity	重 量 /Weight (kg)	托 架 /Bracket		
HAF2000-01	750	1/8	15	0.18	B240	a.停气排水 /Air Shutoff Drain b.手动排水 /Manual Drain	
HAF2000-02		1/4					
HAF3000-02	1500	1/4	20	0.26	B340		HAF3000-03D
HAF3000-03		3/8					HAF3000-03D
HAF4000-03	4000	3/8	45	0.52	B440		HAF4000-03D
HAF4000-04		1/2					HAF4000-04D
HAF4000-06	6000	3/4	45	0.57	B540		HAF4000-06D
HAF5000-06	7000	3/4	130	1.04	B640		HAF5000-06D
HAF5000-10		1					HAF5000-10D

*供应压力为0.7MPa(7.1kgf/cm²)的情况下。*Under the circumstance that the supply pressure is 0.7MPa(7.1kgf/cm²)。

**接管口径另有Rc、NPT螺纹可供选择 / Rc.and NPT port size are available.

外形尺寸图/Overall Dimension Drawing (mm)



HAF2000 HAF3000~4000 HAF5000

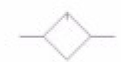
型号Model	口径/Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	M	P
HAF2000	1/8 ~ 1/4	40	113	11	40	17	30	27	22	5.4	8.4	40	2.3	40
HAF3000	1/4 ~ 3/8	53	139.5	14	53	16	41	40	23	6.5	8	53	2.3	56
HAF4000	3/8 ~ 1/2	70	175.5	18	70	17	50	54	26	8.5	10.5	70	2.3	73
HAF4000-06	3/4	75	179.5	20	70	14	50	54	25	8.5	10.5	70	2.3	73
HAF5000	3/4 ~ 1	90	254.5	24	90	23	66.5	66	35	11	13	90	3.2	90

HA 系列油雾器/HA Series Air Lubricator
HAL2000~5000系列/Series

规格 /Specification

保证耐压力/Ensured Pressure Resistance	1.5MPa(15kgf/cm²)
最高使用压力/Highest Working Pressure	1.0MPa(10kgf/cm²)
环境及流体温度/ Ambientand Fluid Temperature	5~60℃
建议用油/Recommended Oil Use	透平1号油/TurbineNo.1Oil ISOVG32
容器材料/Container Material	聚碳酸脂/Polycarbonate
防护罩/Protective Cover	有/Available

符号/symbol



型号 Model	规格/Specifications					配件/Accessories
	*油滴最小流量 Minimal Flow of Oil Drop(L/min)	*额定流量 /Rated Flow (L/min)	**接管口径 /Port Size (G)	杯容量(cm³) /Bowl Capacity	重 量 /Weight (kg)	托 架 /Bracket
HAL2000-01	15	800	1/8	25	0.18	B240
HAL2000-02			1/4			
HAL3000-02	30	1700	1/4	50	0.27	B340
HAL3000-03	40		3/8			
HAL4000-03	40	5000	3/8	130	0.5	B440
HAL4000-04	50		1/2			
HAL4000-06	50	6300	3/4	130	0.57	B540
HAL5000-06	190	7000	3/4	130	1.1	B640
HAL5000-10			1			

*供应压力为0.5MPa(5.1kgf/cm²)，油滴流量为5滴/分钟，透平1号油(ISOVG32)温度20℃情况下。

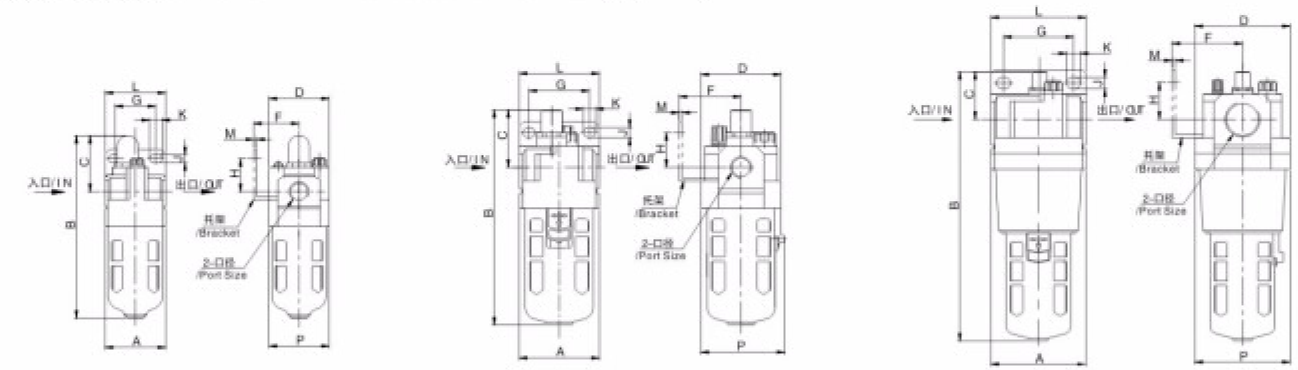
*Under the circumstance that the supply pressure is 0.5MPa(5.1kgf/cm²),oil drop flow is 5 drops/minute,use of Turbine No.1 Oil and 20℃ temperaure.

*供应压力为0.5MPa(5.1kgf/cm²)，压降为0.03MPa(0.3kgf/cm²)情况下。

*Under the circumstance that the supply pressure is 0.5MPa(5.1kgf/cm²) and step down is 0.3MPa(0.3kgf/cm²)

**接管口径另有Rc、NPT ,螺纹可供选择 / Rc.and NPT port size are available.

外形尺寸图/Overall Dimension Drawing (mm)



HAL2000 HAL3000~4000 HAL5000

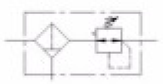
型号Model	口径/Port Size(G)	A	B	C	D	F	G	H	J	K	L	M	P
HAL2000	1/8 ~ 1/4	40	121.5	38	40	30	27	22	5.4	8.4	40	2.3	40
HAL3000	1/4 ~ 3/8	53	142	38	53	41	40	23	6.5	8	53	2.3	56
HAL4000	3/8 ~ 1/2	70	177	41	70	50	54	26	8.5	10.5	70	2.3	73
HAL4000-06	3/4	75	177	39	70	50	54	25	8.5	10.5	70	2.3	73
HAL5000	3/4 ~ 1	90	254	45	90	66.5	66	35	11	13	90	2.3	90

HA 系列过滤减压阀 / HA Series Filter Regulator
HAW2000~5000系列/Series

规格 /Specification

保证耐压力/Ensured Pressure Resistance	1.5MPa(15kgf/cm²)
最高使用压力/Highest Working Pressure	1.0MPa(10kgf/cm²)
环境及流体温度/Ambientand Fluid Temperature	5~60℃
*过滤精度/*Filter Precision	25μm
容器材料/Container Material	聚碳酸脂/Polycarbonate
防护罩/Protective Cover	有/Available
调压范围/Pressure Regulating Range	0.05~0.85MPa(0.5~8.5kgf/cm²)
阀型/Valve Type	带溢流型/With Overflow

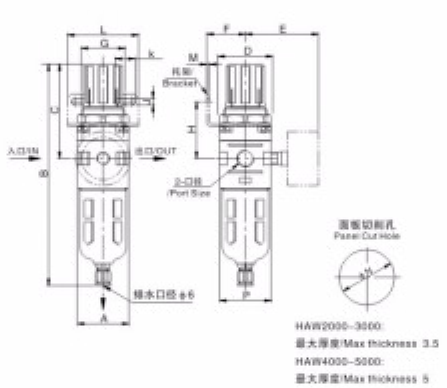
*还有5、50μm可供选择。/ *5,50μm available in addition

符号/symbol 

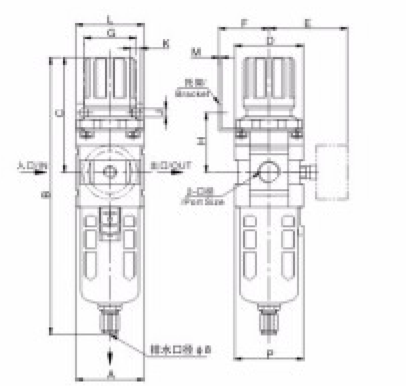
型号 Model	规格/Specifications *额定流量 /Rated Flow (L/min)	**接管口径 /Port Size (G)	压力表口径 /Pressure Gauge Size	重量 /Weight (kg)	配件/Accessories 托架 /Bracket	压力表 /Pressure Gauge	放水器功能/ Drain Function	自动排水型号/ AutoDrainModel
HAW2000-01	550	1/8	1/8	0.3	B220	G36-10-01	a.停气排水 /Air Shutoff Drain b.手动排水 /Manual Drain	
HAW2000-02		1/4						
HAW3000-02	2000	1/4	1/8	0.53	B320			HAW3000-03D
HAW3000-03		3/8						HAW3000-03D
HAW4000-03	4000	3/8	1/4	1.15	B420	G46-10-02		HAW4000-03D
HAW4000-04		1/2						HAW4000-04D
HAW4000-06	4500	3/4	1/4	1.19				HAW4000-06D
HAW5000-06	5500	3/4	1/4	1.78				HAW5000-06D
HAW5000-10		1						HAW5000-10D

*供应压力为0.7MPa(7.1kgf/cm²)设定压力为0.5MPa(5.1kgf/cm²)的情况下。 *Under the circumstance that the supply pressure is 0.7MPa(7.1kgf/cm²)and set pressure is 0.5MPa(5.1kgf/cm²)
**接管口径另有Rc、NPT螺纹可供选择 / Rc.and NPT port size are available.

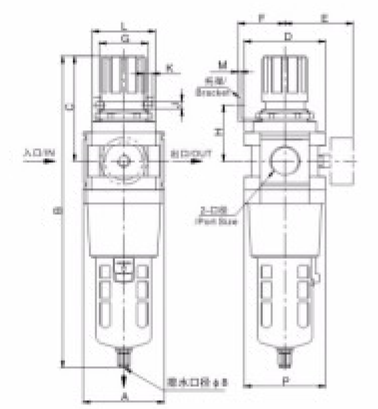
外形尺寸图/Overall Dimension Drawing (mm)



HAW2000



HAW3000~4000



HAW5000

型号Model	口径/Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	M	P	N
HAW2000	1/8 ~ 1/4	40	180	78	40	56.8	30	34	43.5	5.4	15.4	55	2.3	40	33.5
HAW3000	1/4 ~ 3/8	53	218	92.5	53	60.8	39	40	46	6.5	8	53	2.3	56	42.5
HAW4000	3/8 ~ 1/2	70	269.5	112	70	70.5	49.2	54	53.5	8.5	10.5	70	2.3	73	52.5
HAW4000-06	3/4	75	273.5	114	70	70.5	49.2	54	55.5	8.5	10.5	70	2.3	73	52.5
HAW5000	3/4 ~ 1	90	346.5	116	90	75.5	49.2	54	62	8.5	10.5	70	2.3	90	52.5

大口径空气过滤器 / Large Size Air Filter
HAF800~900系列/Series

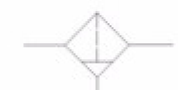
规格 /Specification

保证耐压力/Ensured Pressure Resistance	1.5MPa(15kgf/cm²)
最高使用压力/Highest Working Pressure	1.0MPa(10kgf/cm²)
环境及流体温度/Ambientand Fluid Temperature	5~60℃
*过滤精度/*Filter Precision	25μm
*滤芯材质/*Filter material	铜/Brass
容器材料/Container Material	聚碳酸脂/Polycarbonate
防护罩/Protective Cover	有 / Available

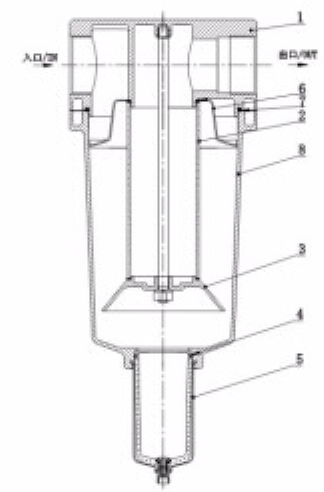
*还有5、50μm可供选择。/ *5,50μm available in addition

型号 Model	规格/Specifications *额定流量/ Rated Flow (L/min)	**接管口径 /Port Size (G)	杯容量(cm³) /Bowl Capacity	重量 /Weight (kg)	放水器功能/ Drain Function	自动排水型号/ Auto Drain Model
HAF800-12	11500	1 ¹/₄	180	3.08	a.停气排水/Air Shutoff Drain b.手动排水 /Manual Drain	HAF800-12D
HAF800-14	11500	1 ¹/₂	180	3.08		HAF800-14D
HAF900-20	18500	2	180	5.16		HAF900-20D

*供应压力为0.7MPa(7.1kgf/cm²)，压降为0.05MPa(0.5kgf/cm²)情况下。
*Under the circumstance that the supply pressure is 0.7MPa(7.1kgf/cm²) and step down is 0.5MPa(0.5kgf/cm²)
**接管口径另有Rc、NPT,螺纹可供选择 / Rc.and NPT port size are available.

符号/symbol 

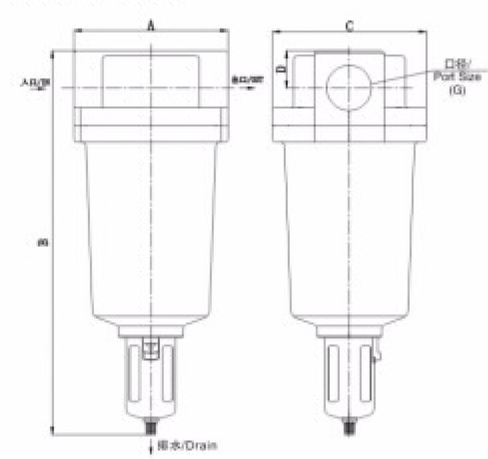
结构简图/零件表 Structural Diagram /List of Components



主零件/Main Parts

序号/No.	名称/Denomination	材料/Material
1	阀体/Nalve Body	铝压铸件/Aluminum Die Casting
2	滤芯/Filter	铜/Brass
3	淌水板/Drain Board	ADC12
4	O形圈/O-ring	橡胶/Rubber
5	存水杯(防护罩)/ Water Storage Cup(Shield)	聚碳酸脂(冷扎板)/ Polycarbonate (Cold Rolled Sheet)
6	旋风叶片/Whirlwind Blade	LY11
7	O形圈/O-ring	橡胶/Rubber
8	中间体/Middle Part	铝压铸件/Aluminum Die Casting

外形尺寸图/Overall Dimension Drawing (mm)



HAF800~900

尺寸表/Dimension Sheet (mm)

型号/Model	口径/Port Size(G)	A	B	C	D
HAF800	1 ¹/₄、1 ¹/₂	150	390	140	33
HAF900	2	190	470	190	46

大口径减压阀/ Large Size Regulator
HAR825~925系列/Series

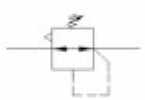
规格 /Specification

保证耐压力/Ensured Pressure Resistance	1.5MPa(15kgf/cm²)
最高使用压力/Highest Working Pressure	1.0MPa(10kgf/cm²)
环境及流体温度/Ambientand Fluid Temperature	5~60℃
调压范围/Pressure Regulating Range	0.05~0.85MPa(0.5~8.5kgf/cm²)
阀型/Valve Type	带溢流型/With Overflow

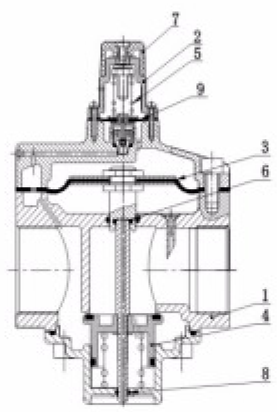
型号 Model	规格/Specifications				配件/Accessories	
	*额定流量 /Rated Flow (L/min)	**接管口径 /Port Size (G)	压力表口径 /Pressure Gauge Size	重量 /Weight (kg)	托架 /Bracket	压力表 /Pressure Gauge
HAR825-14	18000	1 1/2	1/4	2.5	无	G46-10-02
HAR925-20	22000	2	1/4	3.1	无	

*供应压力为0.7MPa(7.1kgf/cm²)设定压力为0.5MPa(5.1kgf/cm²)的情况下。
*Under the circumstance that the supply pressure is 0.7MPa(7.1kgf/cm²)and set pressure is 0.5MPa (5.1kgf/cm²).
**接管口径另有Rc、NPT,螺纹可供选择 / **Rc.and NPT port size are available.

符号/symbol



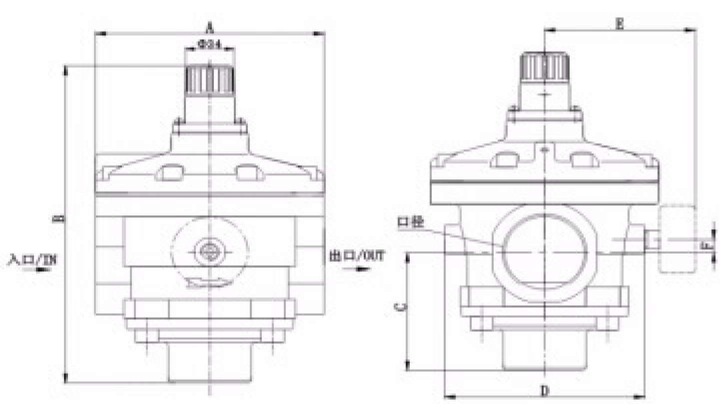
结构简图/零件表 Structural Diagram /List of Components



主零件/Main Parts

序号/No.	名称/Denomination	材料/Material
		HAR825~925
1	阀体Nalve Body	铝压铸件/Aluminum Die Casting
2	阀盖/Bonnet	铝压铸件/Aluminum Die Casting
3	膜片/Film	橡胶/Rubber
4	阀芯Nalve Core	黄铜、橡胶/Brass. Rubber
5	弹簧/Spring	不锈钢/Stainless steel
6	O形圈/O-ring	橡胶/Rubber
7	手轮/Hand Wheel	增强尼龙/Enhance nylon
8	O形圈/O-ring	橡胶/Rubber
9	小膜片/Film	橡胶/Rubber

外形尺寸图/Overall Dimension Drawing (mm)



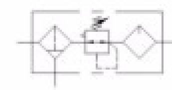
尺寸表/Dimension Sheet (mm)

型号/Model	口径/Port Size(G)	A	B
HAR825	1 1/2	Φ126	216
HAR925	2	Φ160	242

型号/Model	C	D	E	F
HAR825	75	110	90.5	5
HAR925	90	140	105.5	10

HNA系列气源处理组合元件(三联件)/HNA Seiries Combination Unit (F+R+L)
HNAC2000~5000 系列/Series

符号/symbol



特性/Features: 本系列产品的水杯和油杯压铸铝合金制造，与水、油杯为聚碳酸脂材料的常规产品相比，使用范围更广。本产品能在下列环境中使用：受阳光直接照射的环境、有有机溶剂及稀释剂、四氯化碳、氯仿、硝酸、硫酸、苯胺、煤油等化学药品雾气的环境。

This series of products and oil cup gold manufacture die-casting aluminum, with water, oil cup for polycarbonate material compared to the conventional products, a wider range of use:, this product can be used in the following environments: affected by direct sunlight environment, there are four chlorine, organic solvents and thinners, carbon, chloroform, nitric acid, sulfuric acid, aniline, kerosene and other chemicals to the environment.

规格 /Specification

保证耐压力/Ensured Pressure Resistance	1.5MPa(15kgf/cm²)
最高使用压力/Highest Working Pressure	1.0MPa(10kgf/cm²)
环境及流体温度/Ambientand Fluid Temperature	5~60℃
*过滤精度/*Filter Precision	25 μ m
建议用油/Recommended Oil Use	透平1号油/TurbineNo.1Oil ISOVG32
容器材料/Container Material	铝压铸件/Aluminum Die Casting
调压范围/Pressure Regulating Range	0.05~0.85MPa(0.5~8.5kgf/cm²)
阀型/Valve Type	带溢流型/With Overflow

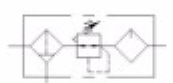
*还有5、50 μ m可供选择。/ *5,50 μ m available in addition

型号 Model	规格/Specifications							配件/Accessories	
	组件/Assembly			*额定流量 /Rated Flow (L/min)	**接管口径 /Port Size (G)	压力表口径 /Pressure Gauge Size	重量 /Weight (kg)	托架 /Bracket	压力表 /Pressure Gauge
	过滤器 /Filter	减压阀 /Regulator	油雾器 /Mist Separator						
HNAC2000-01	HNAF2000	AR2000	HNAL2000	500	1/8	1/8	0.74	Y20T	G36-10-01
HNAC2000-02					1/4				
HNAC2500-02	HNAF3000	AR2500	HNAL3000	1500	1/4	1/8	1.04	Y30T	
HNAC2500-03					3/8				
HNAC3000-02	HNAF3000	AR3000	HNAL3000	2000	1/4	1/8	1.18	Y30T	
HNAC3000-03					3/8				
HNAC4000-03	HNAF4000	AR4000	HNAL4000	4000	3/8	1/4	2.14	Y40T	G46-10-02
HNAC4000-04					1/2				
HNAC4000-06	HNAF4000-06	AR4000-06	HNAL4000-06	4500	3/4	1/4	2.47	Y50T	
HNAC5000-06	HNAF5000	AR5000	HNAL5000	5000	3/4	1/4	3.82	Y60T	
HNAC5000-10					1				

*供应压力为0.7MPa(7.1kgf/cm²)设定压力为0.5MPa(5.1kgf/cm²)的情况下。 *Under the circumstance that the supply pressure is 0.7MPa(7.1kgf/cm²)and set pressure is 0.5MPa(5.1kgf/cm²)
**接管口径另有Rc、NPT螺纹可供选择 / **Rc.and NPT port size are available.

HNA 系列气源处理组合元件(二联件) / HNA Seiries Combination Unit (FR+L)
HNAC2010~5010 系列/Series

符号/symbol



规格 /Specification

保证耐压力/Ensured Pressure Resistance	1.5MPa(15kgf/cm²)
最高使用压力/Highest Working Pressure	1.0MPa(10kgf/cm²)
环境及流体温度/Ambientand Fluid Temperature	5~60℃
*过滤精度/*Filter Precision	25 μ m
建议用油/Recommended Oil Use	透平1号油/TurbineNo.1Oil ISOVG32
容器材料/Container Material	铝压铸件/Aluminum Die Casting
调压范围/Pressure Regulating Range	0.05~0.85MPa(0.5~8.5kgf/cm²)
阀型/Valve Type	带溢流型/With Overflow

*还有5、50 μ m可供选择。/ *5,50 μ m available in addition

型号 Model	规格/Specifications 组件/Assembly 过滤减压阀 / Filter Regulator	油雾器 /Mist Separator	*额定流量 /Rated Flow (L/min)	**接管口径 /Port Size (G)	压力表口径 /Pressure Gauge Size	重量 /Weight (kg)	配件/Accessories 托架 /Bracket	压力表 /Pressure Gauge
HNAC2010-01	HNAW2000	HNAL2000	500	1/8	1/8	0.66	Y20T	G36-10-01
HNAC2010-02				1/4				
HNAC3010-02	HNAW3000	HNAL3000	1700	1/4	1/8	0.98	Y30T	
HNAC3010-03				3/8				
HNAC4010-03	HNAW4000	HNAL4000	3000	3/8	1/4	1.93	Y40T	G46-10-02
HNAC4010-04				1/2				
HNAC4010-06	HNAW4000-06	HNAL4000-06	3000	3/4	1/4	1.99	Y50T	
HNAC5010-06	HNAW5000	HNAL5000	4000	3/4	1/4	3.20	Y60T	
HNAC5010-10				1				

*供应压力为0.7MPa(7.1kgf/cm²)设定压力为0.5MPa(5.1kgf/cm²)的情况下。 *Under the circumstance that the supply pressure is 0.7MPa(7.1kgf/cm²)and set pressure is 0.5MPa(5.1kgf/cm²)
**接管口径另有Rc、NPT螺纹可供选择 / **Rc.and NPT port size are available.

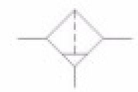
HNA系列空气过滤器 /HNA Series Air Filter
HNAF2000~5000系列/Series

规格 /Specification

保证耐压力/Ensured Pressure Resistance	1.5MPa(15kgf/cm²)
最高使用压力/Highest Working Pressure	1.0MPa(10kgf/cm²)
环境及流体温度/Ambientand Fluid Temperature	5~60℃
*过滤精度/*Filter Precision	25 μ m
滤芯材质/Filter material	铜/Brass
容器材料/Container Material	铝压铸件/Aluminum Die Casting

*还有5、50 μ m可供选择 / *5,50 μ m available in addition
**还有PE材质滤芯可供选择 / **PE material filter element is available

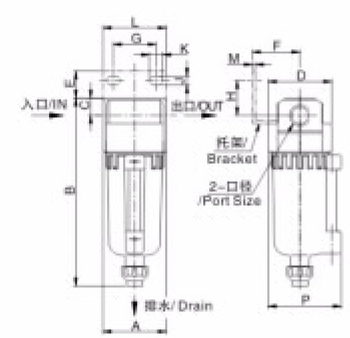
符号/symbol



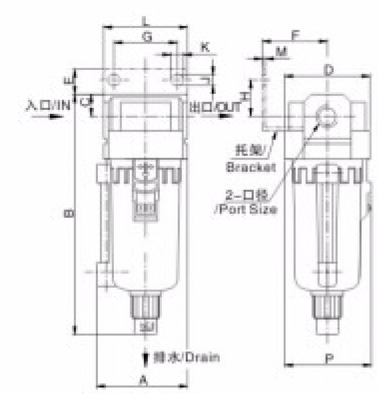
型号 Model	规格/Specifications *额定流量 /Rated Flow (L/min)	**接管口径 /Port Size (G)	杯容量(cm³) /Bowl Capacity	重量 /Weight (kg)	配件/ Accessories 托架 /Bracket	放水器功能/ Drain Function	自动排水型号/ AutoDrainModel
HNAF2000-01	750	1/8	15	0.17	B240	手动排水 /Manual Drain	HNAF2000-01MD
HNAF2000-02		1/4					HNAF2000-02MD
HNAF3000-02	1500	1/4	20	0.29	B340	a.停气排水 /Air Shutoff Drain b.手动排水 /Manual Drain	HNAF3000-02MD
HNAF3000-03		3/8					HNAF3000-03MD
HNAF4000-03	4000	3/8	45	0.53	B440		HNAF4000-03MD
HNAF4000-04		1/2					HNAF4000-04MD
HNAF4000-06	6000	3/4	45	0.58	B540		HNAF4000-06MD
HNAF5000-06	7000	3/4	130	1.05	B640		HNAF5000-06MD
HNAF5000-10		1					HNAF5000-10MD

*供应压力为0.7MPa(7.1kgf/cm²)的情况下。*Under the circumstance that the supply pressure is 0.7MPa(7.1kgf/cm²)。
**接管口径另有Rc、NPT螺纹可供选择 / **Rc.and NPT port size are available.

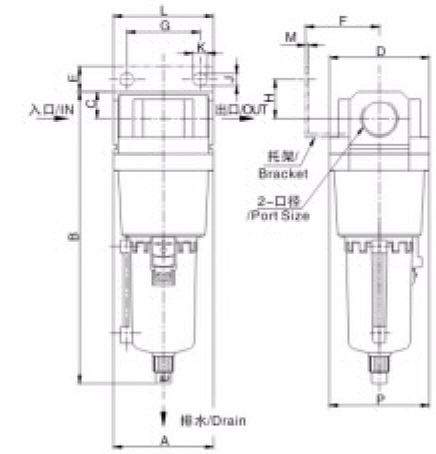
外形尺寸图/Overall Dimension Drawing (mm)



HNAF2000



HNAF3000~4000



HNAF5000

型号Model	口径/Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	M	P
HNAF2000	1/8 ~ 1/4	40	119.5	11	40	17	30	27	22	5.4	8.4	40	2.3	46
HNAF3000	1/4 ~ 3/8	57.5	154	14	53	16	41	40	23	6.5	8	53	2.3	55
HNAF4000	3/8 ~ 1/2	74	184	18	70	17	50	54	26	8.5	10.5	70	2.3	72.5
HNAF4000-06M	3/4	76.5	188	20	70	14	50	54	25	8.5	10.5	70	2.3	72.5
HNAF5000	3/4 ~ 1	90	263	24	90	23	66.5	66	35	11	13	90	3.2	90

HNA 系列油雾器 / HNA Series Air Lubricator
HNAL2000~5000系列/Series

规格 /Specification

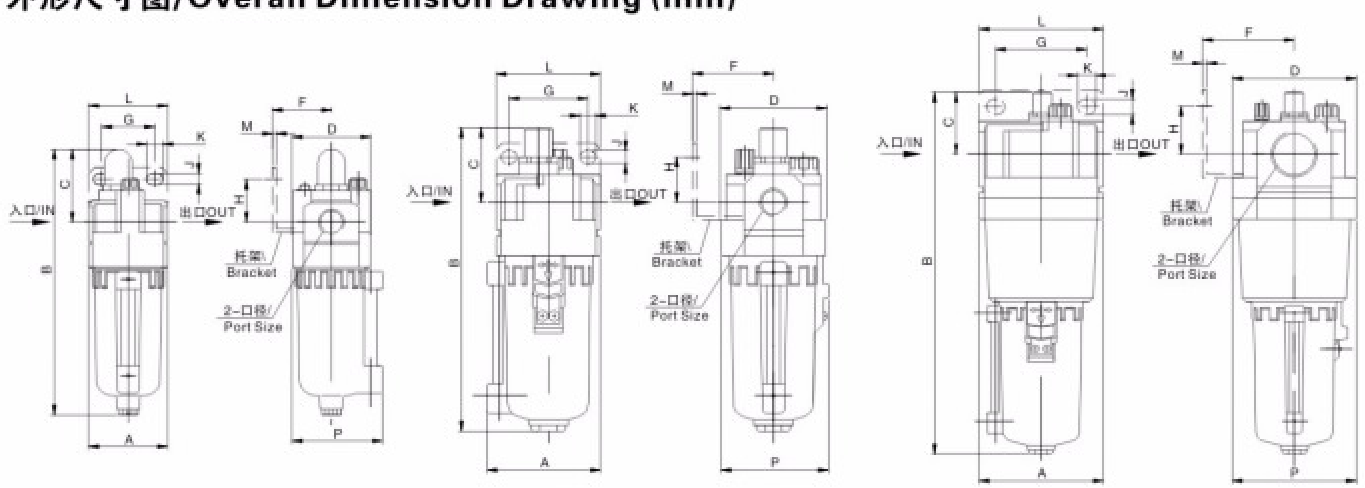
保证耐压力/Ensured Pressure Resistance	1.5MPa(15kgf/cm²)
最高使用压力/Highest Working Pressure	1.0MPa(10kgf/cm²)
环境及流体温度/Ambientand Fluid Temperature	5~60℃
建议用油/Recommended Oil Use	透平1号油/TurbineNo.1Oil ISOVG32
容器材料/Container Material	铝压铸件/Aluminum Die Casting

符号/symbol 

型号 Model	规格/Specifications					配件/Accessories
	*油滴最小流量 Minimal Flow of Oil Drop(L/min)	**额定流量 /Rated Flow (L/min)	***接管口径 /Port Size (G)	杯容量(cm³) /Bowl Capacity	重 量 /Weight (kg)	托 架 /Bracket
HNAL2000-01M	15	800	1/8	25	0.17	B240
HNAL2000-02M			1/4			
HNAL3000-02M	30	1700	1/4	50	0.30	B340
HNAL3000-03M	40		3/8			
HNAL4000-03M	40	5000	3/8	130	0.53	B440
HNAL4000-04M	50		1/2			
HNAL4000-06M	50	6300	3/4	130	0.59	B540
HNAL5000-06M	190	7000	3/4	130	1.13	B640
HNAL5000-10M			1			

*供应压力为0.5MPa(5.1kgf/cm²)，油滴流量为5滴/分钟，透平1号油(ISOVG32)温度20℃情况下。
*Under the circumstance that the supply pressure is 0.5MPa(5.1kgf/cm²),oil drop flow is 5 drops/minute,use of Turbine No.1Oil and 20℃ temperaure.
供应压力为0.5MPa(5.1kgf/cm²)，压降为0.03MPa(0.3kgf/cm²)情况下。Under the circumstance that the supply pressure is 0.5MPa(5.1kgf/cm²) and step down is 0.3MPa(0.3kgf/cm²)
***接管口径另有Rc、NPT：螺纹可供选择 / ***Rc.and NPT port size are available.

外形尺寸图/Overall Dimension Drawing (mm)



HNAL2000 HNAL3000~4000 HNAL5000

型号Model	口径/Port Size(G)	A	B	C	D	F	G	H	J	K	L	M	P
HNAL2000	1/8 ~ 1/4	40	137	38	50	30	27	22	5.4	8.4	40	2.3	46
HNAL3000	1/4 ~ 3/8	57.4	154.5	38	53	41	40	23	6.5	8	53	2.3	55
HNAL4000	3/8 ~ 1/2	74	185.5	41	70	50	54	26	8.5	10.5	70	2.3	72.5
HNAL4000-06 M	3/4	76.5	185.5	39	70	50	54	25	8.5	10.5	70	2.3	72.5
HNAL5000	3/4 - 1	90	262.5	45	90	66.5	66	35	11	13	90	2.3	90

PNEUMATIC
XMC®
HNA 系列气源处理元件 / HNA Series Air Treatment Units

HNA系列过滤减压阀/HNA Series Filter Regulator
HNAW2000~5000系列/Series

规格 /Specification

保证耐压力/Ensured Pressure Resistance	1.5MPa(15kgf/cm²)
最高使用压力/Highest Working Pressure	1.0MPa(10kgf/cm²)
环境及流体温度/Ambientand Fluid Temperature	5~60℃
*过滤精度/*Filter Precision	25μm
容器材料/Container Material	铝压铸件/Aluminum Die Casting
调压范围/Pressure Regulating Range	0.05~0.85MPa(0.5~8.5kgf/cm²)
阀型/Valve Type	带溢流型/With Overflow

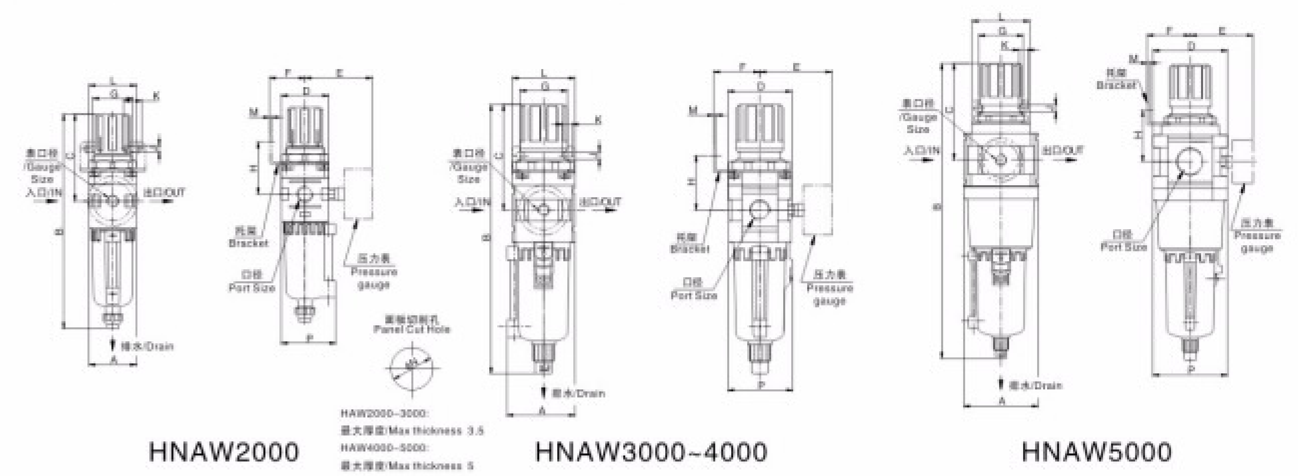
*还有5、50μm可供选择。/ *5,50μm available in addition

符号/symbol 

型号 Model	规格/Specifications				配件/Accessories		放水器功能/ Drain Function	自动排水型号/ AutoDrainModel
	*额定流量 /Rated Flow (L/min)	**接管口径 /Port Size (G)	压力表口径 /Pressure Gauge Size	重 量 /Weight (kg)	托 架 /Bracket	压力表 /Pressure Gauge		
HNAW2000-01M	550	1/8	1/8	0.29	B220	G36-10-01	手动排水 /Manual Drain	HNAW2000-01MD
HNAW2000-02M		1/4						HNAW2000-02MD
HNAW3000-02M	2000	1/4	1/8	0.55	B320		a.停气排水 /Air Shutoff Drain b.手动排水 /Manual Drain	HNAW3000-02MD
HNAW3000-03M		3/8						HNAW3000-03MD
HNAW4000-03M	4000	3/8	1/4	1.16	B420	G46-10-02		HNAW4000-03MD
HNAW4000-04M		1/2						HNAW4000-04MD
HNAW4000-06M	4500	3/4	1/4	1.2				HNAW4000-06MD
HNAW5000-06M	5500	3/4	1/4	1.79				HNAW5000-06MD
HNAW5000-10M		1						HNAW5000-10MD

*供应压力为0.7MPa(7.1kgf/cm²)设定压力为0.5MPa(5.1kgf/cm²)的情况下。 *Under the circumstance that the supply pressure is 0.7MPa(7.1kgf/cm²)and set pressure is 0.5MPa(5.1kgf/cm²)
**接管口径另有Rc、NPT螺纹可供选择 / **Rc.and NPT port size are available.

外形尺寸图/Overall Dimension Drawing (mm)



HNAW2000 HNAW3000~4000 HNAW5000

型号Model	口径/Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	M	P	N
HNAW2000	1/8 ~ 1/4	40	186.5	78	40	56.8	30	34	43.5	5.4	15.4	55	2.3	46	33.5
HNAW3000	1/4 ~ 3/8	57.5	232.5	92.5	53	60.8	39	40	46	6.5	8	53	2.3	55	42.5
HNAW4000	3/8 ~ 1/2	74	278	112	70	70.5	49.2	54	53.5	8.5	10.5	70	2.3	72.5	52.5
HNAW4000-06M	3/4	76.5	282	114	70	70.5	49.2	54	55.5	8.5	10.5	70	2.3	72.5	52.5
HNAW5000	3/4 ~ 1	90	355	116	90	75.5	49.2	54	62	8.5	10.5	70	2.3	90	52.5

HACE 系列气源处理组合元件(三联件) / HACE Seiries Combination Unit (F+R+L)
HACE2000~5000 系列/Series

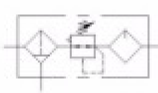
型号命名方法 How To Order

HAC E 3000 - 03 D

HAC	E	3000	03	D
●HAC(H系列杯体和放水结构) H series cup structure	●E:嵌入式方形压力表 Square gauge	2000	01~02(1/8~1/4)	标准：无 Standard: NO
△HNAC(金属杯系列杯体和放水结构) HN series cup structure	△G:常规圆形压力表 Normal gauge	3000	02~03(1/4~3/8)	D:自动排水 Auto drain
△AC(普通的杯体和放水结构) A series cup structure		4000	03~06(3/8~3/4)	
		5000	06~10(3/4~1)	

●标准配置 △可选配置

符号/symbol



特性/Features: 此款产品在压力表的安装方式和产品的溢流结构上做了改进，使产品的使用更方便，溢流灵敏更高。

This product has been improved in installation of pressure gauge and overflow structure,marking the products more convenient,more sensitive overflow

规格 /Specification

保证耐压力/Ensured Pressure Resistance	1.5MPa(15kgf/cm²)
最高使用压力/Highest Working Pressure	1.0MPa(10kgf/cm²)
环境及流体温度/Ambientand Fluid Temperature	5~60℃
*过滤精度/*Filter Precision	25 μ m
建议用油/Recommended Oil Use	透平1号油/TurbineNo.1Oil ISOVG32
容器材料/Container Material	聚碳酸脂/Polycarbonate
防护罩/Protective Cover	HACE2000(无)/(No Available) HACE3000~5000(有)/(Available)
调压范围/Pressure Regulating Range	0.05~0.85MPa(0.5~8.5kgf/cm²)
阀型/Valve Type	带溢流型/With Overflow

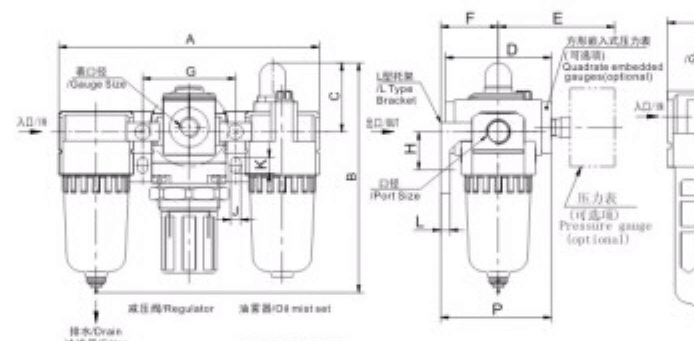
*还有5、50 μ m可供选择。/ *5,50 μ m available in addition

型号 Model 手动放水型	型号 Model 注1)自动排水型	规格/Specifications 组件/Assembly 过滤器 /Filter	减压阀 /Regulator	油雾器 /Mist Separator	注2)额定流量 /Rated Flow (L/min)	注3)接管口径 /Port Size (G)	压力表口径 /Pressure Gauge Size	重 量 /Weight (kg)	配件/Accessories 托 架 /Bracket	压力表 /Pressure Gauge
HACE2000-01	HACE2000-01D	AF2000	HARE2000	AL2000	500	1/8	1/8	0.74	Y20L	FG28-1 ~ G36-10-01
HACE2000-02	HACE2000-02D					1/4				
HACE3000-02	HACE3000-02D	HAF3000	HARE3000	HAL3000	2000	1/4		1.18	Y30L	
HACE3000-03	HACE3000-03D					3/8				
HACE4000-03	HACE4000-03D	HAF4000	HARE4000	HAL4000	4000	3/8	1/4	2.14	Y40L	FG28-1 ~ G46-10-02
HACE4000-04	HACE4000-04D					1/2				
HACE4000-06	HACE4000-06D	HAF4000-06	HARE4000-06	HAL4000-06	4500	3/4		2.47	Y50L	
HACE5000-06	HACE5000-06D	HAF5000	HARE5000	HAL5000	5000	3/4		3.82	Y60L	
HACE5000-10	HACE5000-10D					1				

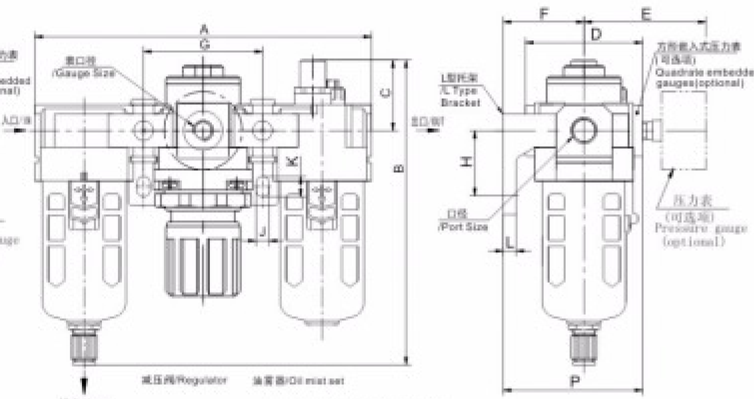
注1）HACE2000有两种自动排水结构可选，脉冲式自动排水器为常规选型，还有杠杆式自动排水器可选，订货时用"D2"表示；
HACE3000~HACE5000自动排水器结构以杠杆式为常规选型，还有浮球式自动排水器可选，详细说明请参阅自动排水器介绍。
注2）供应压力为0.7MPa(7.1kgf/cm²)设定压力为0.5MPa(5.1kgf/cm²)的情况下。
注3）接管口径另有NPT螺纹可供选择。

Note 1) There are 2 types auto drain for HACE2000, pulsed type and lever type. "D" means normal auto drain, pulsed type ; "D2" means lever type auto drain.
The normal auto drain for HACE3000~HACE5000 is lever type, but the float type auto drain is available for choose. Please check the details from AUTO DRAIN in page 55.
Note 2) The inlet pressure is 0.7Mpa(7.1kgf/cm²), the set pressure is 0.5Mpa(5.1kgf/cm²).
Note 3) NPT thread are available.

外形尺寸图/Overall Dimension Drawing(mm)



HACE2000



HACE3000~5000

型号Model	口径/Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	P	带自动排水器B	
HACE2000	1/8 ~ 1/4	140	122	38	58	62.5	30	50	24	5.5	8.5	5	59	145	*160
HACE3000	1/4 ~ 3/8	182	164	38	63	65.5	41	64	35	7	11	7	71.5	172	
HACE4000	3/8 ~ 1/2	238	198	41	80	78.5	50	84	40	9	13	7	90	196	
HACE4000-06	3/4	253	198	40.5	80	78.5	50	89	40	9	13	7	90	196	
HACE5000	3/4 ~ 1	300	274	48	90	80.5	70	105	50	12	16	10.5	113	273	

*标注尺寸为杠杆式自动放水器高度尺寸。*This size is for lever type auto drain.

HACE系列气源处理组合元件(二联件)/HACE Seiries Combination Unit (FR+L)
HACE2010~5010 系列/Series

型号命名方法 How To Order

HAC E 2010 - 02 D

- ●HAC(H系列杯体和放水结构) H series cup structure
- △HNAC(金属杯系列杯体和放水结构) HN series cup structure
- △AC(普通的杯体和放水结构) A series cup structure

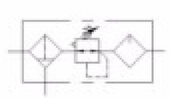
- ●E:嵌入式方形压力表 Square gauge
- △G:常规圆形压力表 Normal gauge

●标准配置 △可选配置

- 2010
- 3010
- 4010
- 5010

- 01~02(1/8~1/4)
- 02~03(1/4~3/8)
- 03~06(3/8~3/4)
- 06~10(3/4~1)

- 标准：无 Standard: NO
- D:自动排水 Auto drain

符号/symbol 

特性/Features: 此款产品在压力表的安装方式和产品的溢流结构上做了改进，使产品的使用更方便，溢流灵敏度更高。

This product has been improved in installation of pressure gauge and overflow structure, making the products more convenient，more sensitive overflow

规格 /Specification

保证耐压力/Ensured Pressure Resistance	1.5MPa(15kgf/cm²)
最高使用压力/Highest Working Pressure	1.0MPa(10kgf/cm²)
环境及流体温度/Ambientand Fluid Temperature	5~60℃
*过滤精度/*Filter Precision	25 μ m
建议用油/Recommended Oil Use	透平1号油/TurbineNo.1Oil ISOVG32
容器材料/Container Material	聚碳酸脂/Polycarbonate
防护罩/Protective Cover	HACE2010(无)/(No Available) HACE3010~5010(有)/(Available)
调压范围/Pressure Regulating Range	0.05~0.85MPa(0.5~8.5kgf/cm²)
阀型/Valve Type	带溢流型/With Overflow

*还有5、50 μ m可供选择。/ *5,50 μ m available in addition

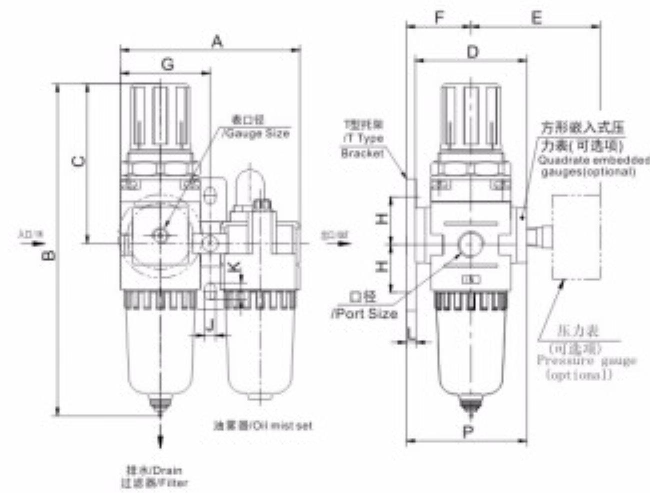
PNEUMATIC
XMC®
HACE 系列气源处理元件 / HACE Series Air Treatment Units

型号 Model		规格/Specifications						配件/Accessories	
		组件/Assembly		注2)额定流量 /Rated Flow (L/min)	注3)接管口径 /Port Size (G)	压力表口径 /Pressure Gauge Size	重 量 /Weight (kg)	托 架 /Bracket	注4)压力表 /Pressure Gauge
手动放水型	注1)自动排水型	过滤减压阀 /Filter Regulator	油雾器 /Mist Separator						
HACE2010-01	HACE2010-01D	HAWE2000	AL2000	500	1/8	1/8	0.50	Y20T	FG28-1 ~ G36-10-01
HACE2010-02	HACE2010-02D				1/4				
HACE3010-02	HACE3010-02D	HAWE3000	HAL3000	1700	1/4		0.95	Y30T	
HACE3010-03	HACE3010-03D				3/8				
HACE4010-03	HACE4010-03D	HAWE4000	HAL4000	3000	3/8	1/4	1.98	Y40T	FG28-1 ~ G46-10-02
HACE4010-04	HACE4010-04D				1/2				
HACE4010-06	HACE4010-06D	HAWE4000-06	HAL4000-06	3000	3/4	1/4	2.25	Y50T	
HACE5010-06	HACE5010-06D	HAWE5000	HAL5000	4000	3/4	1/4	3.28	Y60T	
HACE5010-10	HACE5010-10D				1				

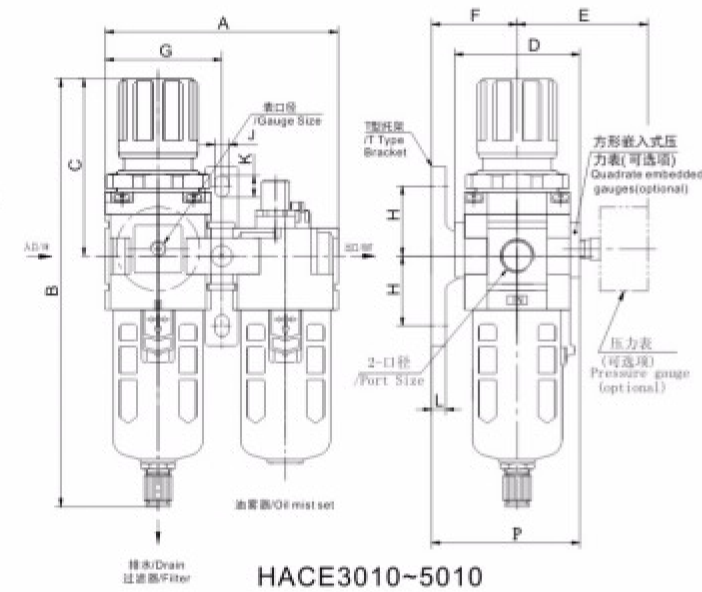
注1）HACE2010有两种自动排水结构可选，脉冲式自动排水器为常规选型，还有杠杆式自动排水器可选，订货时用"D2"表示；
HACE3010-HACE5010自动排水器结构以杠杆式为常规选型，还有浮球式自动排水器可选，详细说明请参阅自动排水器介绍。
注2）供应压力为0.7MPa(7.1kgf/cm²)设定压力为0.5MPa(5.1kgf/cm²)的情况下。
注3）接管口径另有NPT螺纹可供选择。
注4）本款产品一般情况下配置为嵌入式方形压力表（FG28-1）,也可以根据客户要求配置圆形压力表（G36-10-01、G46-10-02）

Note 1) There are 2 types auto drain for HACE2010, pulsed type and lever type. "D" means normal auto drain, pulsed type ; "D2" means lever type auto drain.
The normal auto drain for HACE3010-HACE5010 is lever type, but the float type auto drain is available for choose. Please check the details from AUTO DRAIN in page 55.
Note 2) The inlet pressure is 0.7Mpa(7.1kgf/cm²), the set pressure is 0.5Mpa(5.1kgf/cm²).
Note 3) NPT thread are available.
Note 4) The normal gauge for this prondact is square guage(FG28-1)，normal round gauge is available for choose.

外形尺寸图/Overall Dimension Drawing(mm)



HACE2010



HACE3010~5010

型号Model	口径/Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	M	带自动排水器B	
HACE2010	1/8 ~ 1/4	90	165	80	57	62.5	30	45	24	5.5	8.5	5	60	189	*204
HACE3010	1/4 ~ 3/8	117	215	92.5	63	65.5	41	58.5	35	7	11	7	74	223	
HACE4010	3/8 ~ 1/2	154	264	112	70	78.5	50	77	40	9	13	7	91.5	262	
HACE4010-06	3/4	164	269	114	70	78.5	50	82	40	9	13	7	91.5	266	
HACE5010	3/4 ~ 1	195	348	116	90	80.5	70	97.5	50	12	16	10.5	115	343	

*标注尺寸为杠杆式自动放水器高度尺寸。*This size is for lever type auto drain.

HACE 系列减压阀 / HACE Series Air Regulator
HARE2000~5000系列/Series

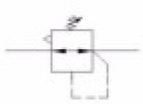
型号命名方法 How To Order

HAR　E　4000　-　04

- HAR(减压阀) Regulator
- ●E:嵌入式方形压力表 Square gauge
- △G:常规圆形压力表 Normal gauge
- 1500 / 2000 / 3000 / 4000 / 5000
- M5~01(M5~1/8) / 01~02(1/8~1/4) / 02~03(1/4~3/8) / 03~06(3/8~3/4) / 06~10(3/4~1)

●标准配置　△可选配置

符号/symbol



特性/Features: 此款产品在压力表的安装方式和产品的溢流结构上做了改进，使产品的使用更方便，溢流灵敏度更高。

This product has been improved in installation of pressure gauge and overflow structure, making the products more convenient，more sensitive overflow

规格 /Specification

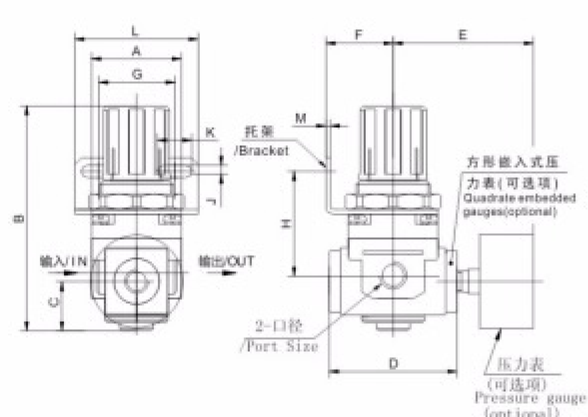
保证耐压力/Ensured Pressure Resistance	1.5MPa(15kgf/cm2)
最高使用压力/Highest Working Pressure	1.0MPa(10kgf/cm2)
环境及流体温度/Ambient and Fluid Temperature	5~60℃
*调压范围/Pressure Regulating Range	0.05~0.85MPa(0.5~8.5kgf/cm2)
阀型/Valve Type	带溢流型/With Overflow

*还有调压范围0.02~0.2MPa(0.2~2kgf/cm²) / *Pressure range 0.02~0.2Mpa(0.2~2kgf/cm²) is available

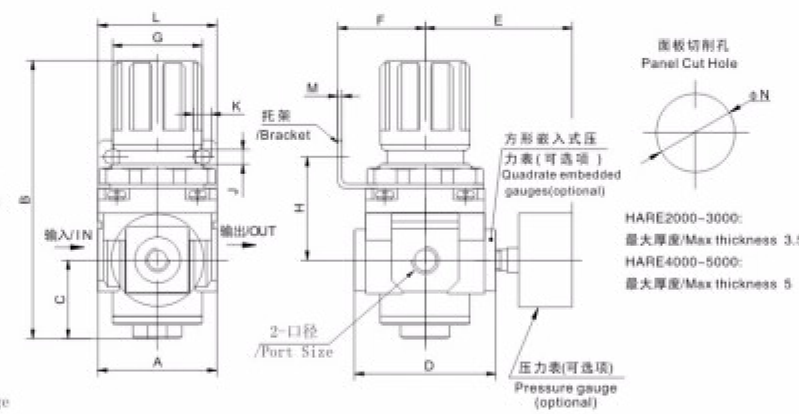
型号 Model	规格/Specifications				配件/Accessories	
	*额定流量 /Rated Flow (L/min)	**接管口径 /Port Size (G)	压力表口径 /Pressure Gauge Size	重　量 /Weight (kg)	托 架 /Bracket	***压力表 /Pressure Gauge
HARE1500-M5	250	M5	1/8	0.18	B120	FG28-01 ~ G36-10-01
HARE1500-1/8		1/8				
HARE2000-01	550	1/8	1/8	0.25	B220	
HARE2000-02		1/4				
HARE3000-02	2500	1/4	1/8	0.42	B320	
HARE3000-03		3/8				
HARE4000-03	6000	3/8	1/4	0.91	B420	FG28-01 ~ G46-10-02
HARE4000-04		1/2				
HARE5000-06	8000	3/4	1/4	1.25		
HARE5000-10		1				

* 供应压力为0.7MPa(7.1kgf/cm²)设定压力为0.5MPa(5.1kgf/ cm²)的情况下
*Under the circumstance that the supply pressure is 0.7MPa(7.1kgf/cm²)and set pressure is 0.5MPa(5.1kgf/cm²)
** 接管口径另有NPT 螺纹可供选择 / NPT port size are available.
***本款产品一般情况下配置为嵌入式方形压力表(FG28-1)，也可根据客户要求配置圆形压力表(G36-10-01、G46-10-02)。
***The normal gauge for this prondact is square guage(FG28-1)，normal round gauge is available for choose.

外形尺寸图/Overall Dimension Drawing(mm)



HARE1500~2000



HARE3000~5000

型号Model	口径/Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	M	N
HARE1500	M5~1/8	31	62	13	42	56	25	28	31	45	6.5	40	2	20.5
HARE2000	1/8~1/4	40	100	24	58	56.8	30	34	44	5.4	15.4	55	2.3	33.5
HARE3000	1/4~3/8	53	124.5	35	64	60.8	39	40	46	6.5	8	53	2.3	42.5
HARE4000	3/8~1/2	70	146.5	37.5	80.5	65.5	49.2	54	54	8.5	10.5	70	2.3	52.5
HARE4000-06	3/4	75	151	40.5	80.5	69.5	49.2	54	55.5	8.5	10.5	70	2.3	52.5
HARE5000	3/4~1	90	165	48	90	75.5	49.2	54	62	8.5	10.5	70	2.3	52.5

HACE系列过滤减压阀/HACE Series Filter Regulator
HAWE2000~5000系列/Series

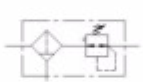
型号命名方法 How To Order

HAW E 3000 − 03 D

HAW	E	3000	03	D
●HAW(H系列杯体和放水结构) H series cup structure	●E:嵌入式方形压力表 Square gauge	2000	01-02(1/8-1/4)	标准：无 Standard: NO
△HNAW(金属杯系列杯体和放水结构) HN series cup structure	△G:常规圆形压力表 Normal gauge	3000	02-03(1/4-3/8)	D:自动排水 Auto drain
△AW(普通的杯体和放水结构) A series cup structure		4000	03-06(3/8-3/4)	
		5000	06-10(3/4-1)	

●标准配置 △可选配置

符号/symbol



特性/Features: 此款产品在压力表的安装方式和产品的溢流结构上做了改进，使产品的使用更方便，溢流灵敏度更高。

This product has been improved in installation of pressure gauge and overflow structure, making the products more convenient，more sensitive overflow

规格 /Specification

保证耐压力/Ensured Pressure Resistance	1.5MPa(15kgf/cm²)
最高使用压力/Highest Working Pressure	1.0MPa(10kgf/cm²)
环境及流体温度/Ambientand Fluid Temperature	5~60℃
*过滤精度/*Filter Precision	25μm
容器材料/Container Material	聚碳酸酯/Polycarbonate
防护罩/Protective Cover	HAWE2000(无)/(Not Available) HAWE3000~5000(有)/(Available)
*调压范围/Pressure Regulating Range	0.05~0.85MPa(0.5~8.5kgf/cm²)
阀型/Valve Type	带溢流型/With Overflow

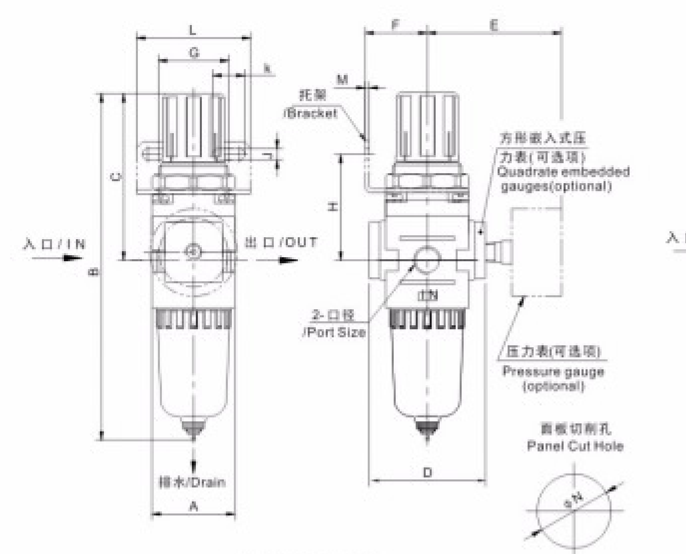
*还有5、50μm可供选择。/ *5,50μm available in addition

型号 Model	规格/Specifications 注2)额定流量 /Rated Flow (L/min)	注3)接管口径 /Port Size (G)	压力表口径 /Pressure Gauge Size	重量 /Weight (kg)	配件/Accessories 托架 /Bracket	注4)压力表 /Pressure Gauge	放水器功能/ Drain Function	注1)自动排水型号/ AutoDrainModel
HAWE2000-01	550	1/8	1/8	0.36	B220	G36-10-01	手动排水 /Manual Drain	HAWE2000-01D
HAWE2000-02		1/4						HAWE2000-02D
HAWE3000-02	2000	1/4	1/8	0.56	B320		a.停气排水 /Air Shutoff Drain b.手动排水 /Manual Drain	HAWE3000-02D
HAWE3000-03		3/8						HAWE3000-03D
HAWE4000-03	4000	3/8	1/4	1.15	B420	G46-10-02		HAWE4000-03D
HAWE4000-04		1/2						HAWE4000-04D
HAWE4000-06	4500	3/4	1/4	1.21				HAWE4000-06D
HAWE5000-06	5500	3/4	1/4	1.70				HAWE5000-06D
HAWE5000-10		1						HAWE5000-10D

注1）HAWE2000有两种自动排水结构可选，脉冲式自动排水器为常规选型，还有杠杆式自动排水器可选，订货时用"D2"表示,如：HAWE2000-02D2;
HAWE3000-HAWE5000自动排水器结构以杠杆式为常规选型，还有浮球式自动排水器可选，详细说明请参阅自动排水器介绍。
注2）供应压力为0.7MPa(7.1kgf/cm²)设定压力为0.5MPa(5.1kgf/cm²)的情况下。
注3）接管口径另有NPT螺纹可供选择。
注4）本款产品一般情况下配置为嵌入式方形压力表（FG28-1）,也可以根据客户要求配置圆形压力表（G36-10-01、G46-10-02）

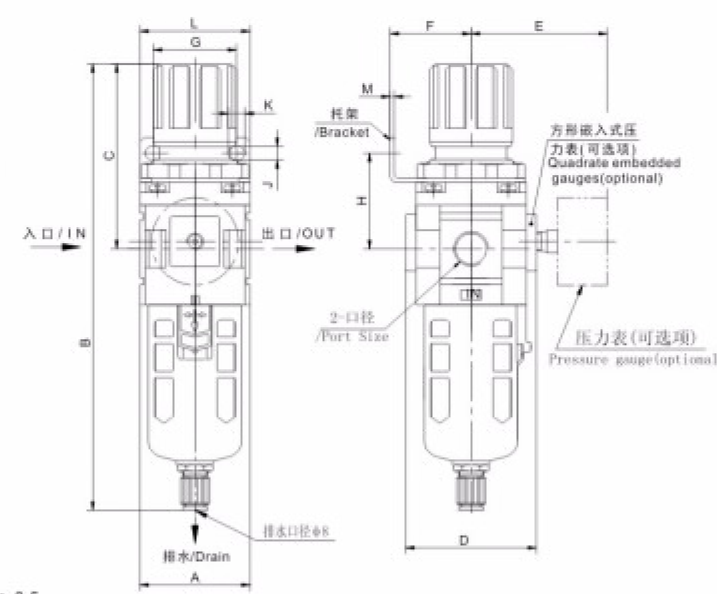
Note 1) There are 2 types auto drain for HAWE2000, pulsed type and lever type. "D" means normal auto drain, pulsed type; "D2" means lever type auto drain.
For Example:HAWE2000-02D2. The normal auto drain for HAWE3000~HAWE5000 is lever type, but the float type auto drain is available for choose. Please check the details from AUTO DRAIN in page 55.
Note 2) Under the circumstance that the supply pressure is 0.7MPa(7.1kgf/cm²)and set pressure is 0.5MPa(5.1kgf/cm²).
Note 3) NPT thread are available.
Note 4) The normal gauge for this product is square (FG28-1), but you can choose the round gauge(G36-10-01,G46-10-02).

外形尺寸图/Overall Dimension Drawing(mm)



HAWE2000

HAWE1000~3000:
最大厚度/Max thickness 3.5
HAWE4000~5000:
最大厚度/Max thickness 5



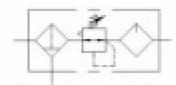
HAWE3000~5000

型号Model	口径/Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	M	N	带自动排水器B	
HAWE2000	1/8~1/4	40	164.5	80	57	62.5	30	34	51.5	5.4	15.4	55	2.3	33.5	189	*204
HAWE3000	1/4~3/8	53	215	92.5	65	65.5	39	40	44.5	6.5	8	53	2.3	42.5	223	
HAWE4000	3/8~1/2	70	264	112	81	78.5	49.2	54	53.5	8.5	10.5	70	2.3	52.5	262	
HAWE4000-06	3/4	75	269	114	81	78.5	49.2	54	55.5	8.5	10.5	70	2.3	52.5	266	
HAWE5000	3/4~1	90	348	116	90	80.5	49.2	54	62	8.5	10.5	70	2.3	52.5	343	

*标注尺寸为杠杆式自动放水器高度尺寸。*This size is for lever type auto drain.

HL 系列气源处理组合元件(三联件) / HL Seiries Combination Unit (F+R+L)
HLC20~40 系列/Series

符号/symbol



型号命名方法 How To Order

HLC 20 – 02 – D

- HLC: 系列号 Series — 三联件/F+R+L
- 20: 规格 Body Size — 20 / 30 / 40
- 02: 接口螺纹 Port Size — 01(1/8) / 02(1/4) / 03(3/8) / 04(1/2) / 06(3/4) / 10(1)
- D: 标准：无 Standard: NO / D:自动排水 Auto drain

特性/Features:

能滤除上游空气中的污物、管垢、铁锈及冷凝水；在特别要求的场合，5 um滤芯可以很容易替换40um标准滤芯; 即使因输入压力和压缩空气消耗产生系统波动，也能保证其设定的工作压力非常稳定；自动可变节流式油雾器，可均匀地向压缩空气喷油雾; 在工作中可实现不停气加油。可通过调节螺钉调节滴油量，常规每1000L空气中含有1～12滴油就足够。

Can filter upstream dirt, pipe scale, rust and condensate in the air; In special occasions, 5 u m 40 u m standard filter filter can be easily replaced.Even for the input pressure fluctuation and compressed air consumption system, also can ensure the setting of pressure of work is very stable. Automatic defect streaming oil mist detector, can be evenly to the compressed air spray mist. In the work can be realized on air refueling. Can adjust the volume of oil drip by adjusting screw, general every 1000 l air is contained in the 1～12 drops of oil is enough.

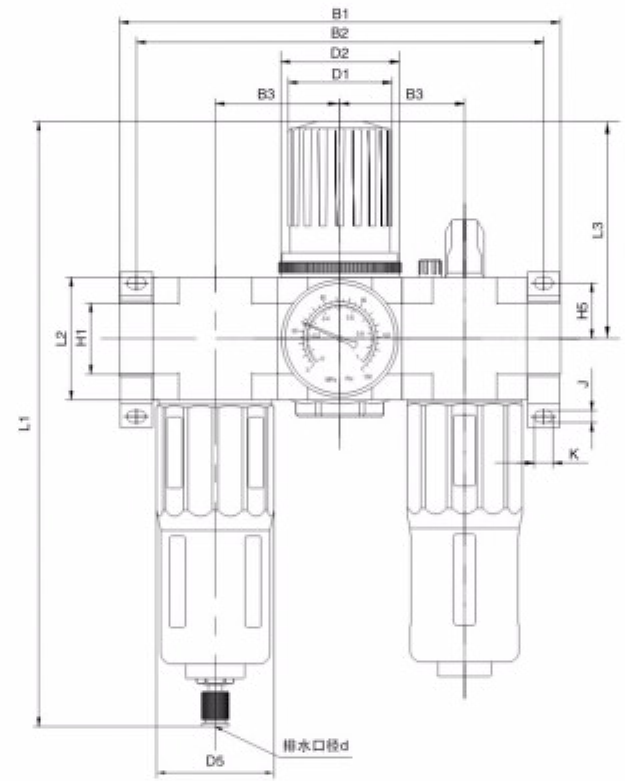
规格 /Specification

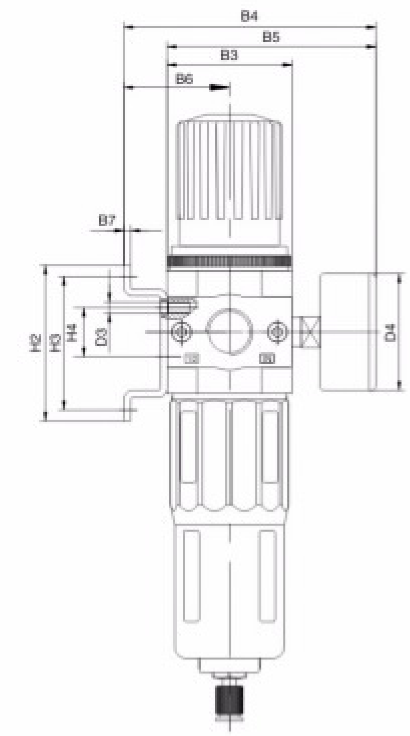
最高使用压力/Highest Working Pressure	1. 6MPa	
工作介质/Working Medium	初级过滤的压缩空气/Compressed air	
結构特点/structural features	油雾型自动可变节流式/Oil mist type can be automatically throttles	
环境及流体温度/Ambientand Fluid Temperature	5～60℃	
安装方式/Installation method	管式安装或支架安装/Pipe installation or bracket installation	
安装位置/Installation position	垂直方向±5° / Vertical±5°	
工作压力/working pressure	0.05~1. 2MPa/0.05~0. 7MPa	
建议用油/Recommended Oil Use	油液牌号	Aral Vitam GF 32 BP Energol HLP32 Esso Nuto H32 Mobil DTE24 Shell Hydrol DO32
	粘度	32mm²/s (=cst)温度为40℃ ISO等级VG32 符合ISO3448标准
*过滤精度/*Filter Precision	4 0 μm (常规/conventional)、5 μm	
容器材料/Container Material	聚碳酸脂/polycarbonate	
防护罩/Protective Cover	铝合金/Aluminum alloy	

型号/Model		HLC20-01	HLC20-02	HLC20-03	HLC30-03	HLC30-04	HLC30-06	HLC40-06	HLC40-10
接管口径/Port Size		G1/8	G1/4	G3/8	G3/8	G1/2	G3/4	G3/4	G1
*标准额定流量 /Standard Rated Flow (L/min)	工作压力/Pressure of work 0.05～1.2MPa	700	1000	1200	2000	2600	2600	7000	8000
	工作压力/Pressure of work 0.05～0.7M Pa	800	1300	1500	2500	2800	2800	8500	8700
最小起雾流量/Minimum flow of fog(L/min)		3			6			10	
最大贮油量/Largest oil storage(mL)		45			110			190	
重量/Weight(kg)		0.524			1.451				
配件/ Accessories	安装支架/Mounting bracket	HFOE20			HFOE30				
	压力表/Pressure Gauge	G36-10-01			G46-10-02				

*输入压力1. 0MPa，工作压力0.6MPa，压降为0.1MPa。*Inlet pressure 1.0MPa,Working pressure 0.6MPa,pressure drop is 0.1MPa

外形尺寸图/Overall Dimension Drawing(mm)

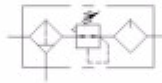




型号 Model	口径(G) Port Size	B1	B2	B3	B4	B5	B6	B7	ΦD1	D2	D3	ΦD4	ΦD5	H1	H2	H3	H4	H5	L1	L2	L3	Φd	J	K
HLC20	G1/8～3/8	147	135	41	97	78	39	2	31	M36x1.5	M4深7	42	38	20	43	35	11	17.5	213	40	69	6	4.3	8
HLC30	3/8～3/4	198	183	56	113	94	47.5	3	47	M52x1.5	M5深8	52.5	53	32	73	58	22	25	273	55	97.5	8	5.3	8.3
HLC40	3/4～1	248	223	66	125	106	52	3	47	M52x1.5	M5深8	52.5	64.5	32	73	58	22	25	296	66	103	8	5.3	8.3

HL系列气源处理组合元件(二联件)/HL Seiries Combination Unit (FR+L)
HLC20A~40A 系列/Series

符号/symbol



型号命名方法

HLC 20 A - 02 - D

- 系列号 Series: HLC; 二联件/FR+L
- 规格 Body Size: 20 / 30 / 40
- 接口螺纹 Port Size: 01(1/8), 02(1/4), 03(3/8), 04(1/2), 06(3/4), 10(1)
- 标准：无 Standard: NO; D:自动排水 Auto drain

特性/Features:

能滤除上游空气中的污物、管垢、铁锈及冷凝水；在特别要求的场合，5 um滤芯可以很容易替换40um标准滤芯; 即使因输入压力和压缩空气消耗产生系统波动，也能保证其设定的工作压力非常稳定；自动可变节流式油雾器，可均匀地向压缩空气喷油雾; 在工作中可实现不停气加油。可通过调节螺钉调节滴油量，常规每1000L空气中含有1～12滴油就足够。

Can filter upstream dirt, pipe scale, rust and condensate in the air; In special occasions, 5 u m 40 u m standard filter filter can be easily replaced.Even for the input pressure fluctuation and compressed air consumption system, also can ensure the setting of pressure of work is very stable. Automatic defect streaming oil mist detector, can be evenly to the compressed air spray mist. In the work can be realized on air refueling. Can adjust the volume of oil drip by adjusting screw, general every 1000 l air is contained in the 1～12 drops of oil is enough.

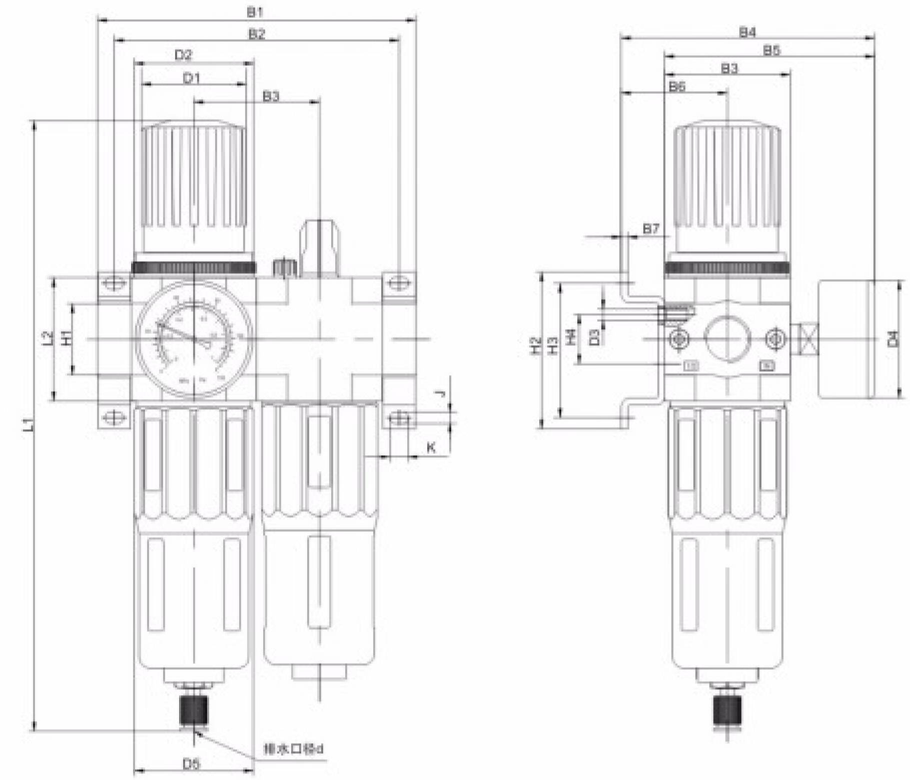
规格 /Specification

最高使用压力/Highest Working Pressure	1. 6MPa	
工作介质/Working Medium	初级过滤的压缩空气/Compressed air	
结构特点/structural features	油雾型自动可变节流式/Oil mist type can be automatically throttles	
环境及流体温度/Ambientand Fluid Temperature	5～60℃	
安装方式/Installation method	管式安装或支架安装/Pipe installation or bracket installation	
安装位置/Installation position	垂直方向±5° / Vertical±5°	
工作压力/working pressure	0.05~1. 2MPa/0.05~0. 7MPa	
建议用油/Recommended Oil Use	油液牌号	Aral Vitam GF 32 BP Energol HLP32 Esso Nuto H32 Mobil DTE24 Shell Hydrol DO32
	粘度	32mm²/s (=cst)温度为40℃ ISO等级VG32 符合ISO3448标准
*过滤精度/*Filter Precision	40 μm（常规/conventional）、5 μm	
容器材料/Container Material	聚碳酸脂/polycarbonate	
防护罩/Protective Cover	铝合金/Aluminum alloy	

型号/Model		HLC20A-01	HLC20A-02	HLC20A-03	HLC30A-03	HLC30A-04	HLC30A-06	HLC40A-06	HLC40A-10
接管口径/Port Size		G1/8	G1/4	G3/8	G3/8	G1/2	G3/4	G3/4	G1
*标准额定流量 /Standard Rated Flow (L/min)	工作压力/Pressure of work 0.05～1.2MPa	700	1000	1200	2000	2600	2600	7000	8000
	工作压力/Pressure of work 0.05～0.7M Pa	800	1300	1500	2500	2800	2800	8500	8700
最小起雾流量/Minimum flow of fog(L/min)		3			6			10	
最大贮油量/Largest oil storage(mL)		45			110			190	
重量/Weight(kg)		0.455			1.131				
配件/ Accessories	安装支架/Mounting bracket	HFOE20			HFOE30				
	压力表/Pressure Gauge	G36-10-01			G46-10-02				

*输入压力1. 0MPa，工作压力0.6MPa，压降为0.1MPa。*Inlet pressure 1.0MPa,Working pressure 0.6MPa,pressure drop is 0.1MPa

外形尺寸图/Overall Dimension Drawing(mm)

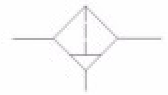


型号 Model	口径(G) Port Size	B1	B2	B3	B4	B5	B6	B7	ΦD1	D2	D3	ΦD4	ΦD5	H1	H2	H3	H4	H5	L1	L2	L3	Φd	J	K
HLC20A	G1/8～3/8	106	92	41	97	78	39	2	31	M36x1.5	M4深7	42	38	20	43	35	11	17.5	213	40	69	6	4.3	8
HLC30A	3/8～3/4	142	127	56	113	94	47.5	3	47	M52x1.5	M5深8	52.5	53	32	73	58	22	25	273	55	97.5	8	5.3	8.3
HLC40A	3/4～1	182	157	66	125	106	52	3	47	M52x1.5	M5深8	52.5	64.5	32	73	58	22	25	296	66	103	8	5.3	8.3

HL 系列空气过滤器 / HL Series Air Filter

HLF20~40系列/Series

符号/symbol



型号命名方法 How To Order

HLF 20 – 02 – D

- HLF: 系列号 Series — 过滤器/Filter
- 20: 规格 Body Size — 20 / 30 / 40
- 02: 接口螺纹 Port Size — 01(1/8) / 02(1/4) / 03(3/8) / 04(1/2) / 06(3/4) / 10(1)
- D: 标准:无 Standard: NO / D:自动排水 Auto drain

特性/Features:

空气过滤器能滤除上游空气中的污物、管垢、铁锈及冷凝水。在特别要求的场合，5μm滤芯可以很容易替换4 0 μm标准滤芯。

Upper air filter can filter out the dirt in the air, pipe scale, rust, and condensed water.On special occasions, 5 microns filter can easily replace 4 0 mu m standard filter.

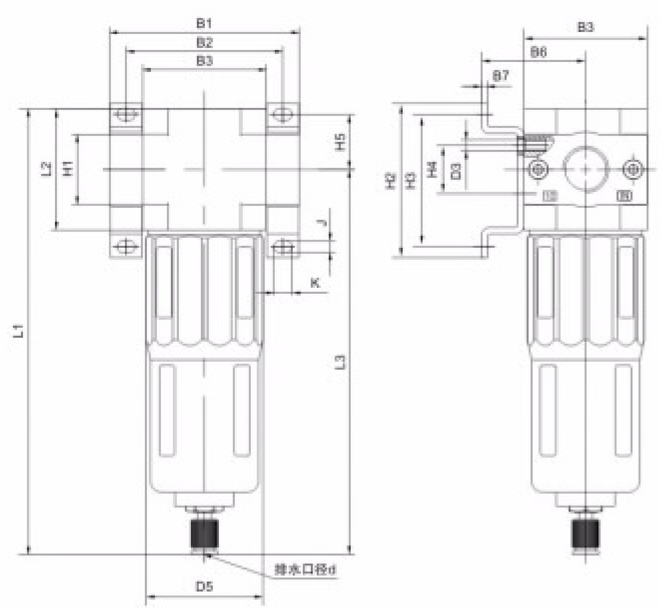
规格 /Specification

最高使用压力/Highest Working Pressure	1. 6MPa
工作介质/Working Medium	初级过滤的压缩空气/Compressed air
过滤精度/Filter Precision	4 0 μm (常规/conventional) 、5 μm
环境及流体温度/Ambientand Fluid Temperature	5～60℃
安装方式/Installation method	管式安装或支架安装/Pipe installation or bracket installation
安装位置/Installation position	垂直方向±5° / Vertical±5°
容器材料/Container Material	聚碳酸脂/polycarbonate
防护罩/Protective Cover	铝合金/Aluminum alloy

型号/Model	HLF20-01	HLF20-02	HLF20-03	HLF30-03	HLF30-04	HLF30-06	HLF40-06	HLF40-10
接管口径/Port Size	G1/8	G1/4	G3/8	G3/8	G1/2	G3/4	G3/4	G1
*标准额定流量/Standard Rated Flow(L/min)	1000	1200	1400	2700	3000	3000	5000	5300
杯子最大容量/The cup capacity(mL)	22			43			80	
重量/Weight(kg)	0.213	0.216	0.220	0.493	0.503	0.517		
安装支架/Mounting bracket	HFOE20			HFOE30				

*输入压力0.6MPa，压降为0.1MPa。*Inlet pressure 0.6MPa,pressure drop is 0.1MPa

外形尺寸图/Overall Dimension Drawing(mm)



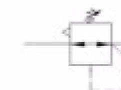
型号 Model	口径(G) Port Size	B1	B2	B3	B6	B7	D3	ΦD5	H1
HLF20	G1/8～3/8	65	53	41	39	2	M4深7	38	20
HLF30	G3/8～3/4	86	71	56	47.5	3	M5深8	53	32
HLF40	G3/4～1	116	91	66	52	3	M5深8	64.5	32

型号 Model	H2	H3	H4	H5	L1	L2	L3	Φd	J	K
HLF20	43	35	11	17.5	164	40	144	6	4.3	8
HLF30	73	58	22	25	202	55	175	8	5.3	8.3
HLF40	73	58	22	25	226	66	192.5	8	5.3	8.3

HL 系列减压阀 / HL Series Air Regulator

HLR20~40系列/Series

符号/symbol



型号命名方法 How To Order

HLR 20 – 02

- HLR: 系列号 Series — 减压阀/Regulator
- 20: 规格 Body Size — 20 / 30 / 40
- 02: 接口螺纹 Port Size — 01(1/8) / 02(1/4) / 03(3/8) / 04(1/2) / 06(3/4) / 10(1)

特性/Features:

即使因输入压力和压缩空气消耗产生系统波动，也能保证其设定的工作压力非常稳定。

Even for input pressure fluctuation and compressed air consumption system, pressure reducing valve can ensure the setting of pressure of work is very stable.

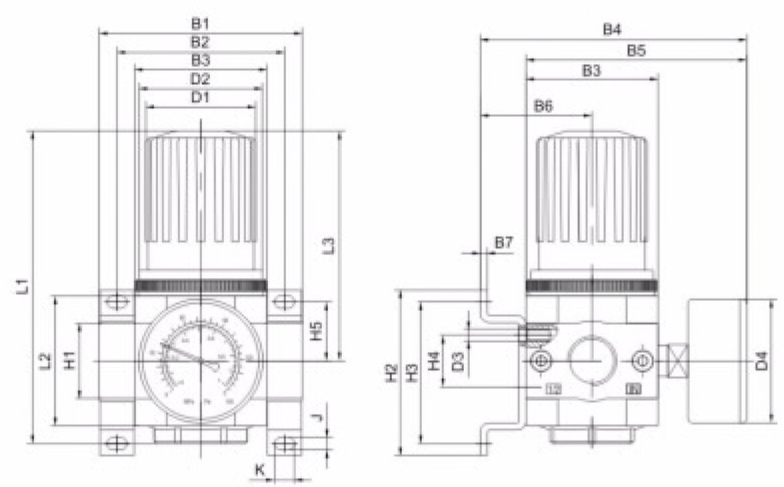
规格 /Specification

最高使用压力/Highest Working Pressure	1. 6MPa
工作介质/Working Medium	经过滤的压缩空气/Compressed air
环境及流体温度/Ambientand Fluid Temperature	5～60℃
调压范围/Pressure Regulating Range	0.05～1.2MPa/0.05～0.7MPa
安装方式/Installation method	管式安装或支架安装/Pipe installation or bracket installation
安装位置/Installation position	任意/any

型号/Model		HLR20-01	HLR20-02	HLR20-03	HLR30-03	HLR30-04	HLR30-06	HLR40-06	HLR40-10
接管口径/Port Size		G1/8	G1/4	G3/8	G3/8	G1/2	G3/4	G3/4	G1
*标准额定流量/Standard Rated Flow (L/min)	工作压力/Pressure of work 0.05～1.2MPa	800	1500	1700	3200	3500	3500	3500	3500
	工作压力/Pressure of work 0.05～0.7M Pa	1000	1600	1800	3300	4000	4500	4500	4500
重量/Weight(kg)		0.205	0.208	0.212	0.626	0.636	0.650		
配件/Accessories	安装支架/Mounting bracket	HFOE20				HFOE30			
		HR20				B420			
	压力表/Pressure Gauge	G36-10-01				G46-10-02			

*输入压力1. 0MPa，工作压力0.6MPa，压降为0.1MPa。*Inlet pressure 1.0MPa,Working pressure 0.6MPa,pressure drop is 0.1MPa

外形尺寸图/Overall Dimension Drawing(mm)

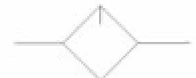


型号 Model	口径(G) Port Size	B1	B2	B3	B4	B5	B6	B7	ΦD1	D2
HLR20	G1/8～3/8	65	53	41	97	78	39	2	31	M36x1.5
HLR30	G3/8～3/4	86	71	56	113	94	47.5	3	47	M52x1.5
HLR40	G3/4～1	116	91	66	128	106	52	3	47	M52x1.5

型号 Model	D3	ΦD4	H1	H2	H3	H4	H5	L1	L2	L3	J	K
HLR20	M4深7	42	20	43	35	11	17.5	95	40	69	4.3	8
HLR30	M5深8	52.5	32	73	58	22	25	135	55	97.5	5.3	8.3
HLR40	M5深8	52.5	32	73	58	22	25	146	66	103	5.3	8.3

HL 系列油雾器 / HL Series Air Lubricator
HLL20~40系列/Series

符号/symbol



型号命名方法

HLL 20 - 02

- HL：系列号 Series
- L：油雾器/ Lubricator
- 20：规格 Body Size — 20 / 30 / 40
- 02：接口螺纹 Port Size — 01(1/8) / 02(1/4) / 03(3/8) / 04(1/2) / 06(3/4) / 10(1)

特性/Features:

自动可变节流式油雾器，可均匀地向压缩空气喷油雾，在工作中可实现不停气加油，可通过调节螺钉调节滴油量，常规每1000L空气中含有1～12滴油就足够.

Automatic defect streaming oil mist detector, can be evenly to the compressed air spray mist. Which can realize constant air refueling in the work. Can be adjusted by adjusting the screw drop of oil, general every 1000 l containing 1 – 12 drops of oil in the air is enough.

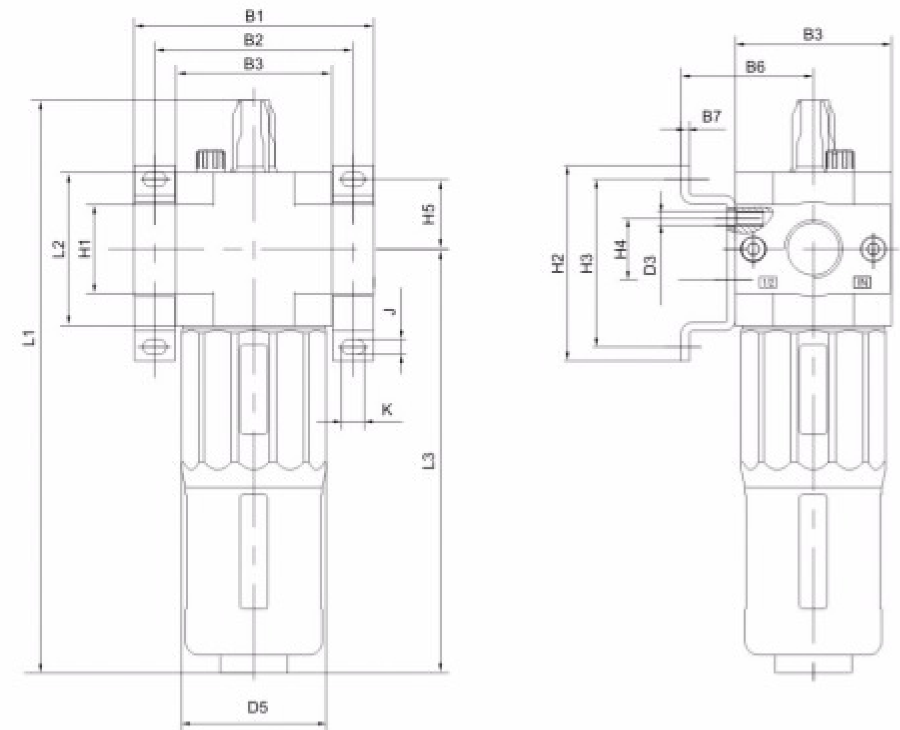
规格 /Specification

最高使用压力/Highest Working Pressure	1. 6MPa	
工作介质/Working Medium	经过滤的压缩空气/Compressed air	
结构特点/structural features	油雾型自动可变节流式/Oil mist type can be automatically throttles	
环境及流体温度/Ambientand Fluid Temperature	5～60℃	
安装方式/Installation method	管式安装或支架安装/Pipe installation or bracket installation	
安装位置/Installation position	垂直方向±5° / Vertical±5°	
建议用油/Recommended Oil Use	油液牌号	Aral Vitam GF 32　BP Energol HLP32　Esso Nuto H32　Mobil DTE24　Shell Hydrol DO32
	粘度	32mm²/s (=cst)温度为40℃ ISO等级VG32　符合ISO3448标准
容器材料/Container Material	聚碳酸脂/polycarbonate	
防护罩/Protective Cover	铝合金/Aluminum alloy	

型号/Model	HLL20-01	HLL20-02	HLL20-03	HLL30-03	HLL30-04	HLL30-06	HLL40-06	HLL40-10
接管口径/Port Size	G1/8	G1/4	G3/8	G3/8	G1/2	G3/4	G3/4	G1
*标准额定流量/Standard Rated Flow(L/min)	1300	2300	2700	5500	6100	6300	6100	6300
最小起雾流量/Minimum flow of fog(L/min)	3			6			10	
最大贮油量/Largest oil storage(mL)	45			120			190	
重量/Weight(kg)	0.212	0.215	0.219	0.485	0.495	0.509		
安装支架/Mounting bracket	HFOE20			HFOE30				

*输入压力0.6MPa，压降为0.1MPa。*Inlet pressure 0.6MPa,pressure drop is 0.1MPa

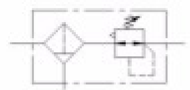
外形尺寸图/Overall Dimension Drawing(mm)



型号 Model	口径(G) Port Size	B1	B2	B3	B6	B7	D3	ΦD5	H1	H2	H3	H4	H5	L1	L2	L3	J	K
HLL20	G1/8～3/8	65	53	41	39	2	M4深7	38	20	43	35	11	17.5	169	40	123	4.3	8
HLL30	3/8～3/4	86	71	56	47.5	3	M5深8	53	32	73	58	22	25	206	55	152	5.3	8.3
HLL40	3/4～1	116	91	66	52	3	M5深8	64.5	32	73	58	22	25	227	66	168	5.3	8.3

HL系列过滤减压阀/HL Series Filter Regulator
HLW20~40系列/Series

符号/symbol



型号命名方法

HLW 20 – 02 – D

- HLW: 系列号 Series / 过滤减压阀/ Filter Regulator
- 20: 规格 Body Size: 20, 30, 40
- 02: 接口螺纹 Port Size: 01(1/8), 02(1/4), 03(3/8), 04(1/2), 06(3/4), 10(1)
- D: 标准:无 Standard: NO; D:自动排水 Auto drain

特性/Features:

空气过滤器能滤除上游空气中的污物、管垢、铁锈及冷凝水。在特别要求的场合，5 μm滤芯可以很容易替换4 0 μm标准滤芯。即使因输入压力和压缩空气消耗产生系统波动，也能保证其设定的工作压力非常稳定。

Upper air filter can filter out the dirt in the air, pipe scale, rust, and condensed water. On special occasions, 5 microns filter can easily replace 4 0 mu m standard filter. Even for input system fluctuation pressure and compressed air consumption, also can ensure the setting of pressure of work is very stable.

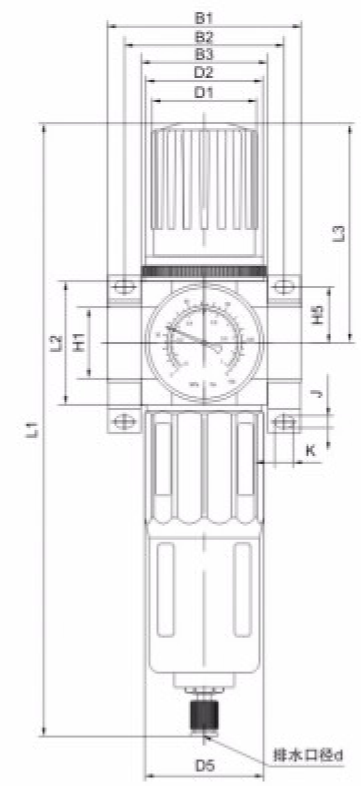
规格 /Specification

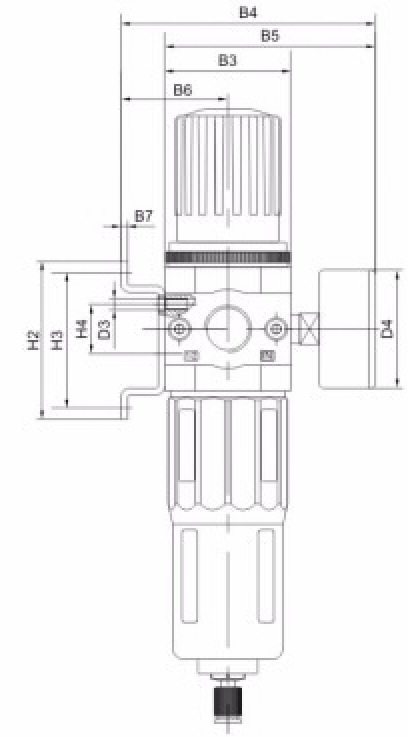
最高使用压力/Highest Working Pressure	1. 6MPa
工作介质/Working Medium	初级过滤的压缩空气/Compressed air
过滤精度/Filter Precision	4 0 μ m (常规/conventional) 、5 μ m
环境及流体温度/Ambientand Fluid Temperature	5 ~ 60℃
工作压力/Pressure of work	0.05~1. 2MPa/0.05~0. 7MPa
安装方式/Installation method	管式安装或支架安装/Pipe installation or bracket installation
安装位置/Installation position	垂直方向 ± 5° / Vertical ± 5°
容器材料/Container Material	聚碳酸脂/polycarbonate
防护罩/Protective Cover	铝合金/Aluminum alloy

型号/Model		HLW20-01	HLW20-02	HLW20-03	HLW30-03	HLW30-04	HLW30-06	HLW40-06	HLW40-10
接管口径/Port Size		G1/8	G1/4	G3/8	G3/8	G1/2	G3/4	G3/4	G1
*标准额定流量 /Standard Rated Flow (L/min)	工作压力/Pressure of work 0.05 ~ 1.2MPa	750	1400	1600	3100	3400	3400	9000	10000
	工作压力/Pressure of work 0.05 ~ 0.7M Pa	900	1500	1700	3400	3900	4000	9500	16000
杯子最大容量/The cup capacity(mL)		22			43			80	
重量/Weight(kg)		0.290	0.293	0.297	0.720	0.730	0.744		
配件/ Accessories	安装支架/Mounting bracket	HFOE20			HFOE30				
		HR20			B420				
	压力表/Pressure Gauge	G36-10-01			G46-10-02				

*输入压力1. 0MPa，工作压力0.6MPa，压降为0.1MPa。*Inlet pressure 1.0MPa,Working pressure 0.6MPa,pressure drop is 0.1MPa

外形尺寸图/Overall Dimension Drawing(mm)

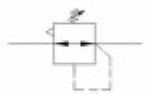




型号 Model	口径(G) Port Size	B1	B2	B3	B4	B5	B6	B7	ΦD1	D2	D3	ΦD4	ΦD5	H1	H2	H3	H4	H5	L1	L2	L3	Φd	J	K
HLW20	G1/8 ~ 3/8	65	53	41	97	78	39	2	31	M36x1.5	M4深7	42	38	20	43	35	11	17.5	213	40	69	6	4.3	8
HLW30	3/8 ~ 3/4	86	71	56	113	94	47.5	3	47	M52x1.5	M5深8	52.5	53	32	73	58	22	25	273	55	97.5	8	5.3	8.3
HLW40	3/4 ~ 1	116	91	66	125	106	52	3	47	M52x1.5	M5深8	52.5	64.5	32	73	58	22	25	296	66	103	8	5.3	8.3

NAR管接式减压阀/NAR Compact Regulator

符号/symbol



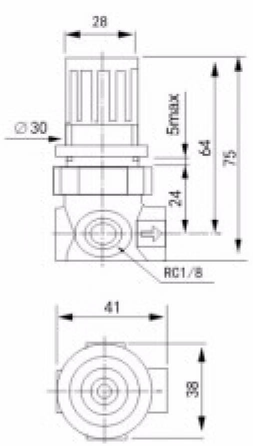
规格/Specifcation

工作介质/Working Medium	经过滤的压缩空气/Compressed air
保证耐压力/Ensured Pressure Resistance	1.5MPa(15Kgf/cm²)
最高使用压力/Maximum Working Pressure	1.0MPa(10Kgf/cm²)
调压范围/Pressure Regulating Range	0.05～0.85MPa(0.5～8.5kgf/cm²)
环境及流体温度/Ambient and Fluid Temperature	5~60℃
阀 型/Valve Type	带溢流型/With Overflow

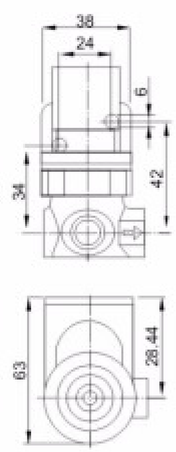
型号 Model	规格/Specifications				配件/Accessories	
	*额定流量 /Rated Flow (L/min)	**接管口径 /Port Size (G)	压力表口径 /Pressure Gauge Size	重 量 /Weight (kg)	托 架 /Bracket	压力表 /Pressure Gauge
NAR200-01	300	1/8	1/8	0.16	NB220	G27-10-R1
NAR200-02		1/4				

注:*供应压力为0.7MPa(7.1kgf/cm²),二次压力设定为0.5MPa(5.1kgf/cm²)的情况下.

外形尺寸/Overall Dimension

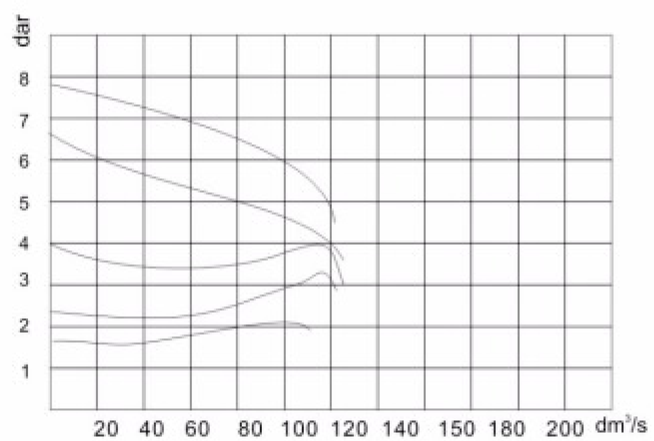


NAR200



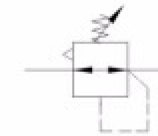
安装支架

流量特性曲线/Characteristic Curve of Flow Rate



直动式精密减压阀/Direct-acting precision Microregulator HMRP 2000系列/Series

符号Symbol



特性/Features:

有常泄式溢流孔，稳压精度高，流量特性好，能快速排出下游的多余压力。

Provided with a controlled air escape which is able to achieve highly accurate pressure adjustment,High stability with low load losses and big flow rate,Downstream overpressures quickly eliminated.

型号命名方法

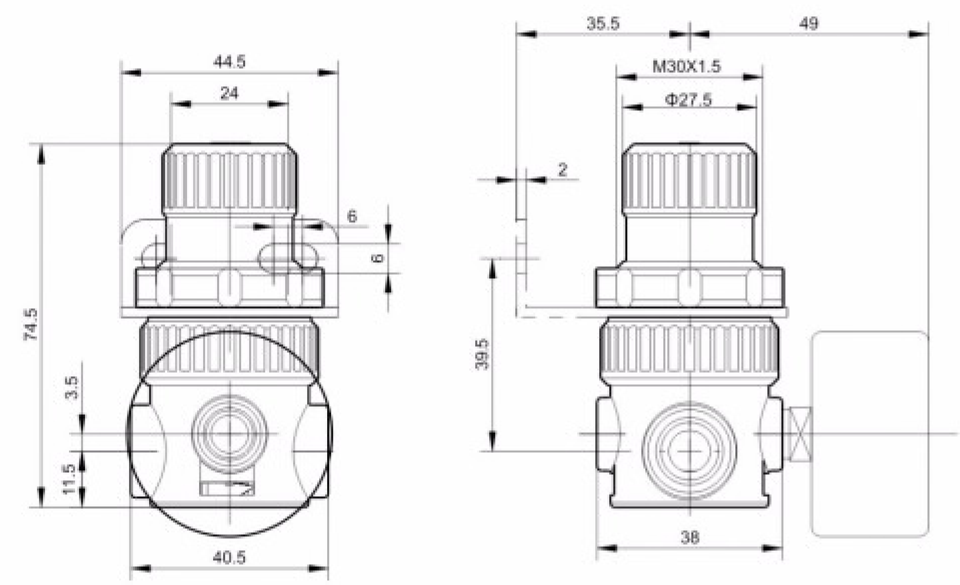
HM R P 2000 - 01

- HM: 系列号 Series
- R: 减压阀/Regulator
- P: 恒溢流 Always bleeding；无：溢流 NO:Bleeding
- 2000: 规格 Size
- 01: 接口螺纹 Port Size — 01(1/8)，02(1/4)

最高使用压力/Highest Working Pressure	1. 6MPa
工作介质/Working Medium	初级过滤的压缩空气 /Compressed air
环境及流体温度/Ambientand Fluid Temperature	5～60℃
调压范围/Pressure range	0.05~0. 8MPa
安装方式/Installation method	支架安装/With bracket
安装位置/Installation position	任意/Any where

型号/Type	规 格/Specifications					
	额定流量 Flow rate	接管口径 Port Size	压力表口径 /Gauge Port Size	重量 /Weight	托架 /Bracket	压力表 /Gauge
HMRP2000-01	450L/min	G1/8	G1/8	0.16kg	X-系列托架 The same as X series	G36-10-01
HMRP2000-02		G1/4				
HMR2000-01		G1/8				
HMR2000-02		G1/4				

外形尺寸图/Overall Dimension Drawing(mm)



精密减压阀/Precision Regulator
HIR2000.3000.4000系列/Series

特性/Features:

- 体积小，重量轻/Compact and light weight.
- 压力设定精确/Accurate pressure setting .
- 调节螺钉的齿间距为0.5mm/The thread distance of adjusting screw is 0.5mm.
- 安装方便，可用托架独立安装或与现在的模块式过滤组合元件AF及AFM直接安装
  Easy installation, can be stalled with bracket independently or with modular filter AF and AFM directly.
- 标准型也带面板安装/Manifolding is possible.
- 先导排气口与主排气口分开/Pilot vent is separated from the main vent.
- 可在洁净房使用(特注产品)/Can be used in the clean room.

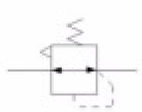
型号命名方法 How To Order

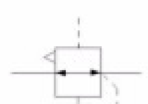
HIR 3 0 0 0 - N 02 G R

- 阀体大小/Body size
  2:HIR2000型/type
  3:HIR3000型/type
  4:HIR4000型/type
- 设定形式/Type of setting
  0:基本型(手轮)/Basic (Handle)
  1:气控型/Air operated
  (仅/only HIR2、3000)
- 设定压力范围/Set pressure range
  0:0.01~0.2MPa
  1:0.01~0.4MPa
  2:0.01~0.8MPa
- 螺纹种类
  Thread style
  无标记: G
  No mark: G
  N:NPT
  R:Rc
- 接管口径
  Port size
  01:1/8(仅HIR2000)
  02:1/4(仅HIR3、4000)
  03:3/8(仅HIR4000)
  04:1/2(仅HIR4000)
- 附件可选项/
  无：不带
  B: 带托架
  G: 带压力表
  Accessories
  NO:NONE
  B: With bracket
  G: With gauge
- 追记号
  无:标准安装
  R:压力表、托架、标贴安装在背侧
  NO:NONE
  R: Pressure gauge,bracket,label installed on reverse side.

注：标准安装位置是IN侧在左，OUT侧在右，压力表和标贴在前，后部带托架。
Note: The standard mounting position of the pressure gauge is on the front,when viewing the regualtor with IN side to the left and the OUTside to the right.

符号/symbol


标准型/Basic


气控型/Air operated

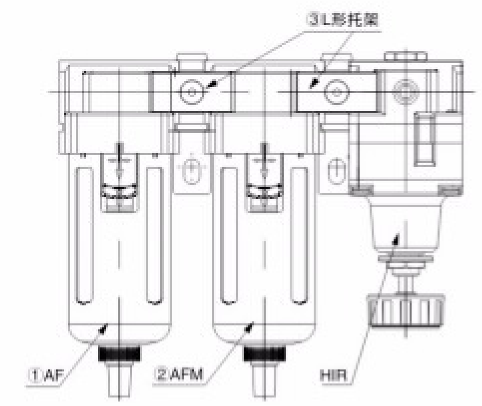
规格 /Specification

灵敏度/Sensitivity		在0.2%满度以内/Within 0.2% of full span
重复精度/Repeatability		在±0.5%满度以内/Within ±0.5% of full span
耗气量/Air consumption	HIR2000	最大3.5L/min(ANR)在1.0MPa压力下 3.5l/min(ANR) or less at supply pressure 1.0MPA 排气口最大3L/min(ANR)在最高设定压力下 Exhaust port:3l/min(ANR) or less at maximum set pressure
	HIR3000	
	HIR4000	
环境及流体温度/Ambientand Fluid Temperature		-5 ~ +60℃(未冻结时/No freezing)
最高使用压力/Highest Working Pressure		1.0MPa
压力表连接口径/Pressure gauge port		G1/8

型号/规格/Type/Specification

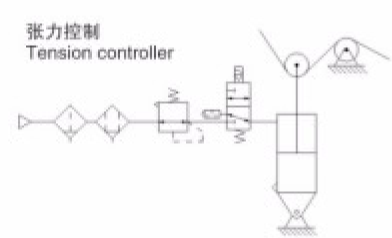
型号/Type		规格/Specifications 最低使用压力(MPa) Minimum working pressure	设定压力范围(MPa) Set pressure range	接管口径 Port Size	配件/Accessories 压力表型号 Pressure gauge type	托架型号 Bracket type
标准型 standard type	HIR2000-01	设定压力/Set pressure + 0.05	0.01~0.2	1/8	G36-2-01	B2-IR
	HIR2010-01		0.01~0.4		G36-4-01	
	HIR2020-01		0.01~0.8		G36-10-01	
	HIR3000-02		0.01~0.2	1/4	G36-2-01	B3-IR
	HIR3010-02		0.01~0.4		G36-4-01	
	HIR3020-02		0.01~0.8		G36-10-01	
	HIR4000-□	设定压力/Set pressure + 0.1	0.01~0.2	3/8 ~ 1/2	G36-2-01	B4-IR
	HIR4010-□		0.01~0.4		G36-4-01	
	HIR4020-□		0.01~0.8		G36-10-01	
气控型 Air operated type	HIR3120-02	设定压力/Set pressure+0.05	0.01~0.8	1/4	G36-10-01	B3-IR
	HIR4120-□	设定压力/Set pressure+0.1	0.01~0.8	3/8~1/2	G36-10-01	B4-IR

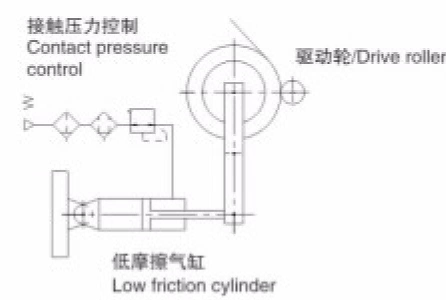
安装在模块式过滤组合元件上/Modular products and accessory combinations



适合附属品名称 Suitable for the name of the accessory	适合型号/Suitable for model HIR20□0	HIR30□0 HIR3120	HIR40□0 HIR4120
①空气过滤器/Air filter	AF2000	AF3000	AF4000
②油雾分离器/Oil mist separator	AFM2000	AFM3000	AFM4000
③L形托架/L bracket	B210L	B310L	B410L
④T形托架/T bracket	B210T	B310T	B410T
⑤隔板/partition	Y20	Y30	Y40
⑥带L形托架隔板/With the L bracket clapboard	Y20L	Y30L	Y40L
⑦带T形托架隔板/With the T bracket clapboard	Y20T	Y30T	Y40T

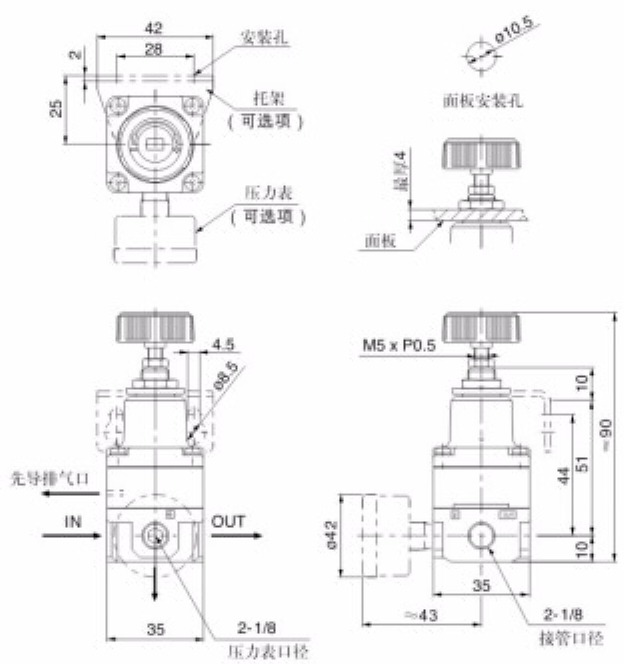
应用示例/Application



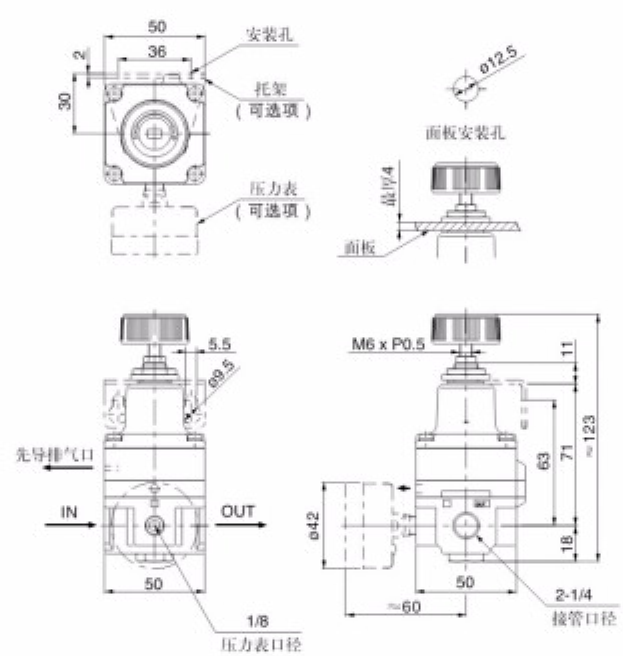


外形尺寸图/Overall Dimension Drawig(mm)

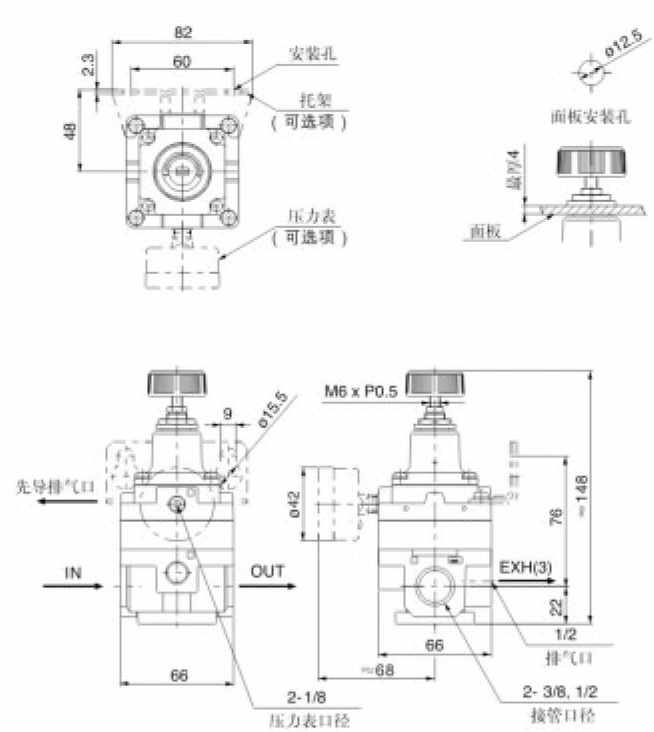
HIR20□0-01



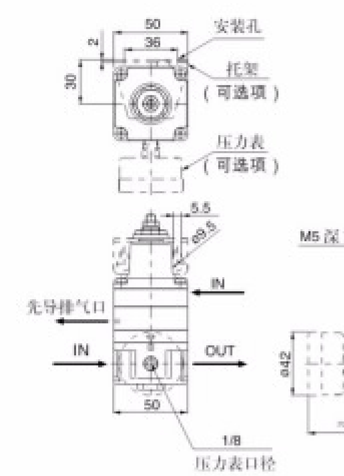
HIR30□0-02



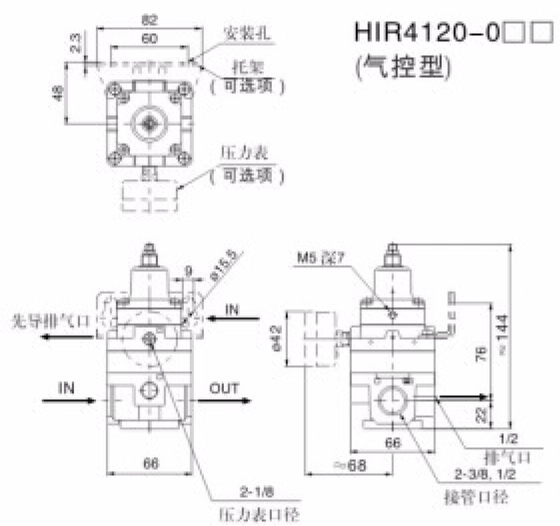
HIR40□0-0□



HIR3120-02□
(气控型)

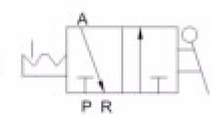


HIR4120-0□□
(气控型)



带锁型二位三通释放式截流阀/ Venting Safety Lock-out Valve
HVHS2000～5000系列/Series

符号/symbol

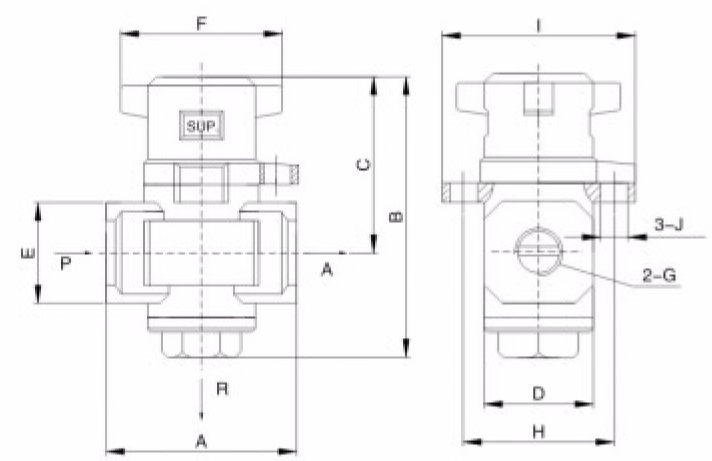


特性/Features:

该截流阀工作时能释放出次压侧压力，方便维修；具有锁定功能，确保维修人员安全。

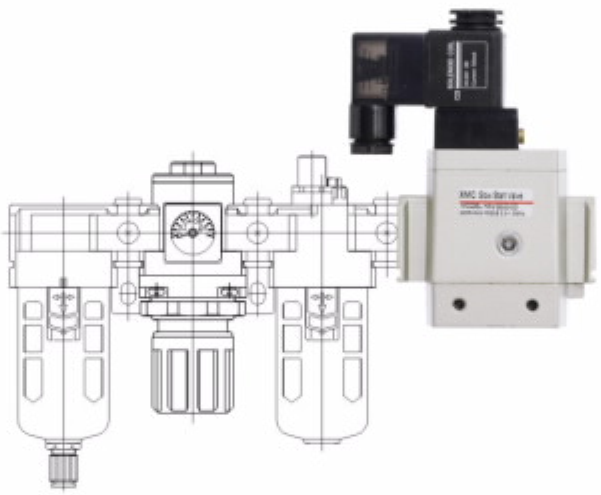
It is easy to be maintained because it can realse the pressure of the hypo-pressure side when it is working.It can ensure the safty of the maintenance man bceause of the lockup functinon.

外形尺寸图/Overall Dimension Drawing (mm)

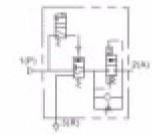


型号/ Model	G	排气口径 Vent size	A	B	C	D	E	F	H	I	J
HVHS2000-01-X1	G1/8	G1/8	40	59	39	28	22	40	32	41	Φ6
HVHS2000-02-X1	G1/4	G1/8	40	59	39	28	22	40	32	41	Φ6
HVHS3000-02-X1	G1/4	G1/4	53	78	49	30	28	45	41.5	53	Φ7.5
HVHS3000-03-X1	G3/8	G1/4	53	78	49	30	28	45	41.5	53	Φ7.5
HVHS4000-03-X1	G3/8	G3/8	70	84	52	36	36	45	41.5	53	Φ7.5
HVHS4000-04-X1	G1/2	G3/8	70	84	52	36	36	45	41.5	53	Φ7.5
HVHS5000-06-X1	G3/4	G1/2	90	136	72	54	48	68	77	90	Φ8.5
HVHS5000-10-X1	G1	G1/2	90	136	72	54	48	68	77	90	Φ8.5

稳定启动电磁阀 / Slow Start Valve
HAV2000~5000系列/Series



符号/symbol



特性/Features:

稳定启动电磁阀用于系统的安全保护作用。启动初期它只允许少量空气流过（流量可以调节），当出口压力达到进口压力的一半时，该阀便完全开启，达到其最大流量。该阀关闭时，残压会通过该阀快速排空。本阀可与空气组合元件模块式连接。

This is a differential balanced valve automatically opens the air port fully when the downstream pressure is about 50% of the upstream pressure. Without a pilot, the upstream air flows downstream through the regulation needle. When an external or pneumatic solenoid signal is generated, the valve opens the main port to create full flow. It doesn't relieve the downstream circuit.

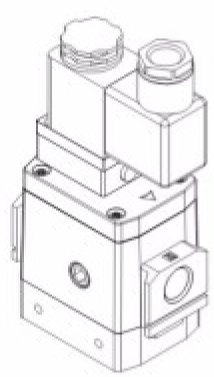
型号命名方法 How To Order

HAV A 20 00 – R 02 G – 1 G

控制方式 Type of control	阀体大小 Body Size	螺纹种类 Thread Type	接管口径 Port Size	可选项 optional	额定电压 Voltage	导线引出方式 Plug Mode
无: 电控式 No: Solenoid	20:1/4	无标记:G No tags: G	02:1/4(仅HAV2000)	无标记:无 No tags: No	1: AC110V	G:直接出线式 G:Grommet type
有: 气控式 With: Pneumatic	30:3/8	R: RC	03:3/8(仅HAV3000)	G:带压力表 G:With Gauge	2: AC220V	D:插座式 D:DIN Type:
	40:1/2	N: NPT	04:1/2(仅HAV4000)		3: DC12V	
	50:3/4、1		06:3/4(仅HAV5000)		4: DC24V	
			10:1(仅HAV5000)		5:其它 5:other	

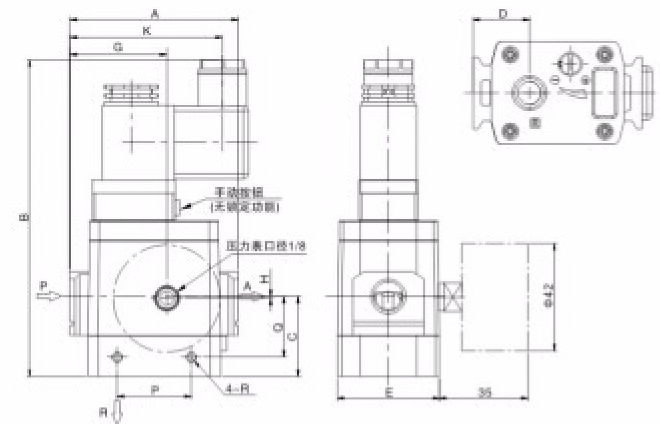
规格 /Specification

型号/Model		HAV2000	HAV3000	HAV4000	HAV5000	
接管口径/Port Size		1/4	3/8	1/2	3/4	1
有效截面积(mm²) effective sectional area	1(P)–2(A)	20	37	61	113	122
	2 (A) –3 (R)	24	49	76	132	141
使用压力范围/Applicable Pressure Range		0.3 ~ 1.0MPa				
环境及流体温度/Ambientand Fluid Temperature		0 ~ 60℃				
线圈额定电压/Coil voltage rating		DC24、12V、AC220、110V				
允许电压波动/Allow voltage fluctuation		额定电压的/Rated voltage –15%~+10%				
线圈绝缘等级/Coil insulation class		B级或相同等级/B level or the same level				
消耗功率DC/Consumed power DC		3W				
视在功率AC/Apparent power AC		启动/Start: 5.6VA 保持/Keep:3.4VA				
气控端盖接口/Port size of cap for pnuematic version		G1/8				
气控端最低启动压力/Lowest start pressure for pneumatic version		0.2MPa				

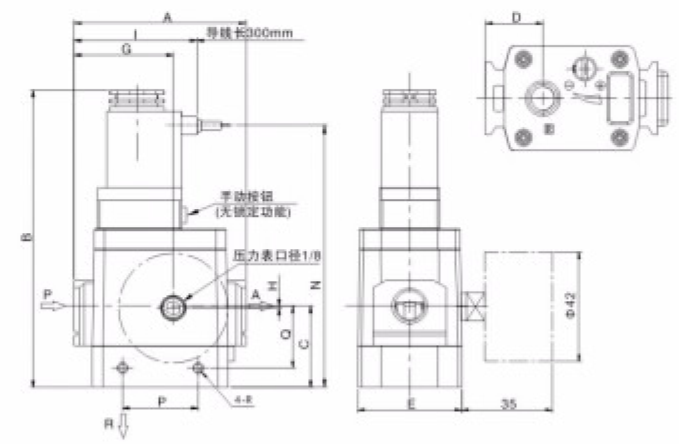


外形尺寸图/Overall Dimension Drawing (mm)

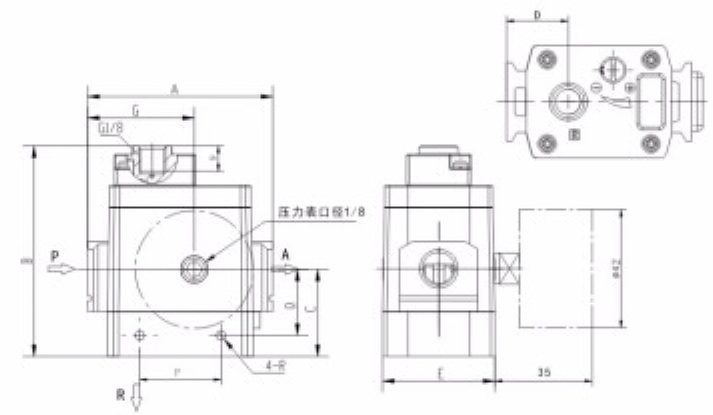
插座式/DIN Type:
HAV□00–□–□D



直接出线式/Grommet type:
HAV□00–□–□G



气控式稳定启阀/:
HAVA□00–□



型号/ Model	出线方式 Entry cable	口径 Port Size G	A	B	C	D	E	G	H	I	K	N	P	Q	R
HAV2000	G	1/4	66	114	31	22	40	38	0	47	–	100	29	23.5	M4 深5
	D			124						–	60	–			
HAVA2000	–			75						–	–	–			
HAV3000	G	3/8	76	121	36	24	48	43	2	50	–	107	28	27.5	M5 深5
	D			131						–	63	–			
HAVA3000				82						–	–	–			
HAV4000	G	1/2	98	136	47	32	52	57	3	62	–	122	42	37	M6 深6
	D			146						–	75	–			
HAVA4000	–			97						–	–	–			
HAV5000	G	3/4 1	128	164	59	39	74	77	0	74	–	150	50	46	M6 深7.5
	D			174						–	85	–			
HAVA5000	–			139						–	–	–			

HAL-2 二次油雾器 / Secondary Lubricator

符号/symbol 

技术参数/Technical Parameters:

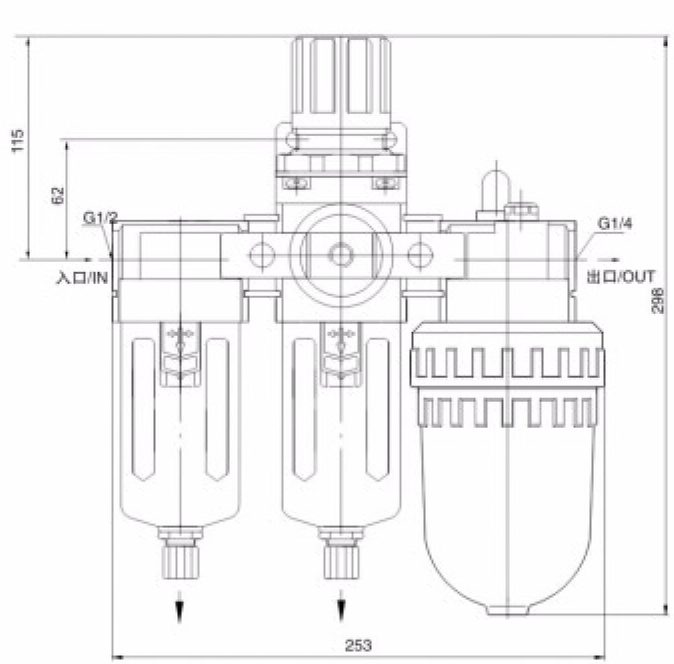
工作介质/Working Medium	经过滤洁净的压缩空气/ Filtered Compressed Air
公称压力/Nominal Pressure	1.00MPa
介质温度与环境温度/ Media and Ambient Temperature	5~60℃
建议用油/Recommended Oil Use	透平1号油ISOVG32 / TurbineNo.1OilISOVG32
润滑油滴油量调节/Oildrop flow	0~120滴均匀可调/0~120 drops
容器材料/Container Material	聚碳酸脂/Polycarbonate

用途/Application

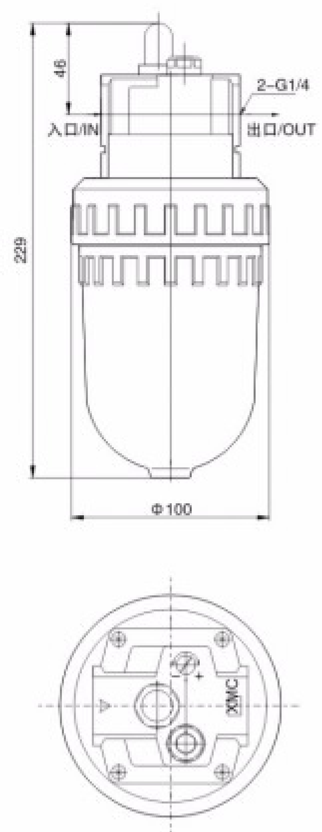
HAL-2二次油雾器与AF4000-04空气过滤器、AW4000-04空气过滤减压阀组合为HAFWL-2大流量精密过滤油雾润滑装置，应用于轴承生产流水线上，在轴承磨削工序中对轴承和磨头起油雾润滑作用。

HAL-2 Secondary Lubricator and AF4000-04 Air filter and AW4000-04 Filter with Regulator combination is called HAFWL-2 big flux precision filtration lubricator set. It can be applied to the product line of bearing producting.It can lubricate the bearing and the grinding wheel during the grinding operation.

外形尺寸图/Overall Dimension Drawing(mm)



HAFWL-2



HAL-2

HAMC系列排气洁净器/HAMC Serise Exhaust Cleaner
HAMC220~520系列/Serise

规格 /Specification

环境及流体温度/Ambientand Fluid Temperature	5~60℃
消声效果/Muffling Effect	35分贝以上/More than 35 decibel
油雾回收效果/Oil mist recovery effect	99. 9%以上/More Than 99.9%
回收的油雾排走方法/ Recycling of oil mist walk way	内螺纹排放孔/Female thread hole
滤芯一次测压力	0.1MPa以下

型号/Model	HAMC220-02	HAMC320-02	HAMC320-03	HAMC520-04	HAMC520-06
接管口径/Port Size	G1/4	G1/4	G3/8	G1/2	G3/4
有效截面积/effective sectional area(mm^2)	12	16	16	55	55
最大处理流量/ Maximum flow processing(L/min)	200	300	300	1000	1000
重量/Weight	0.12kg	0.25kg	0.25kg	0.55kg	0.55kg

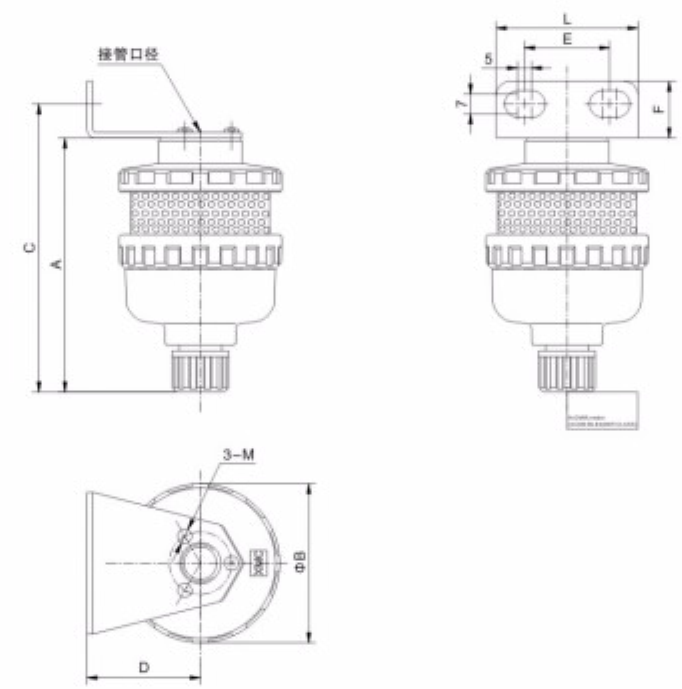
使用说明/Instructions:

1.必须垂直安装。
2.当排气洁净器排气时，进口压力达到0. 1MPa或已使用1年时，应更换滤芯。
3.不得接触有机溶剂。
1. Must be installed in a vertical position.
2. The filter element should be changed,When the Inlet pressure is 0.1 MPa or used more than 1 year.
3. No exposure to organic solvents.

特性/Features:

1.HAMC排气洁净器是新一代的节能环保产品。
2.用来吸收排气噪声，并分离和排放出压缩空气中的油雾和冷凝水，降低噪声及油雾的污染，保持工作环境的清洁和宁静。
3.主要用于把多个气阀的排气口连接起来，作集中的噪声及油雾处理。
1. HAMC exhaust cleaning machine is the new generation of energy conservation and environmental protection products.
2. Used to absorb exhaust noise,recover the waste oil and water , to keep clean.
3. Mainly used to collect the noise and oil mist from the whole system.

外形尺寸图/Overall Dimension Drawing (mm)

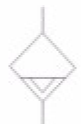


尺寸表/Dimension Sheet (mm)

型号/Model	接管口径Port Size(G)	A	B	C	D	E	F	L	3-M螺钉
HAMC220	1/4	88	57.5	100	40	30	20	50	M3x8
HAMC320	1/4,3/8	120.5	76.5	140.5	55	30	30	50	M3x8
HAMC520	1/2,1/4	173.5	102.5	193.5	70	40	30	70	M4x8

HAD系列自动排水器 / HAD Series Auto Drain
HAD402系列 /Series

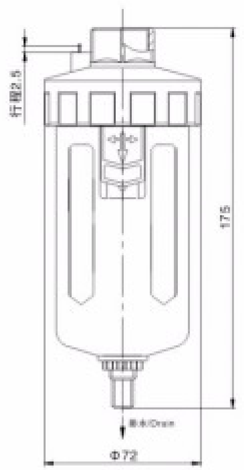
符号/symbol



规格 / Specifications

型号/Model	HAD402-02	HAD402-03	HAD402-04
保证耐压力/Ensured Pressure Resistance	1.5MPa		
动作压力/Operating Pressure	0.15~1.00MPa		
环境及流体温度/Ambientand Fluid Temperature	5~60℃		
接管口径/Port Size	G1/4	G3/8	G1/2
排水口径/Drain Port Size	R1/8		
排水状态/Drain Status	常开型/NormalOpenType		
工作介质/Working Medium	压缩空气/Compressedair		

外形尺寸图/Overall Dimension Drawing(mm)



用途/Purpose:

常用于自动排除管道低处、冷冻式空气干燥机、油水分离器、贮气罐及各种空气过滤器底部等处的积水。可安装在不便于进行人工排放污水的地方，如高处、低处、狭隘处；特别是安装在用气量较大、放水次数较频繁的地方，可防止人工排水被遗忘而造成压缩空气被冷凝水重新污染。

This product often applies to auto remove the seeper at the lower places of piping, frozen type air drying machine,oil separator,air storage tanks and the bottom of various air filters. It can be installed in the places inconvenient for manual discharge of sewage,such as higher, lower and narrow places, especially there's large consumption of air or frequent water drains. It can prevent the compressed air being re-polluted by condense water resulting from neglect of manual drain.

特性/Features:

自动排水/Auto drainer 停气排水/Air Shut off Drain 手动排水/Manual Drain
水杯配有金属保护罩/The water cup is provided with metal protective cover

注意事项/Points for Attention:

使用时，必须垂直位置安装，且使排水口朝下。

When using,the drainer should be installed ver tically the drain port facing down.

ZDFS 自动放水器 / ZDFS Auto Discharger

适用范围/Range of Application:

本产品安装在自动排水器、空气过滤器、空气过滤减压阀的水杯底部，能自动排放积聚在水杯中的冷凝水。

This product is installed at the bottom of water cups for auto dis-chargers, air filters and air filter regulators and can auto discharge the condense water gathered in the water cup.

特性 /Features:

自动排水/Auto drain；停气排水/Air Shutoff Drain；手动排水/Manual Drain

技术要求/Technical Requirements:

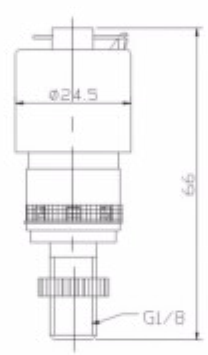
工作介质/Working Medium	压缩空气/compressed air
环境与介质温度/ Ambient and media temperature	5~60℃
动作压力/Operating Pressure	0.15~1.00MPa

注意事项 /Points for Attention:

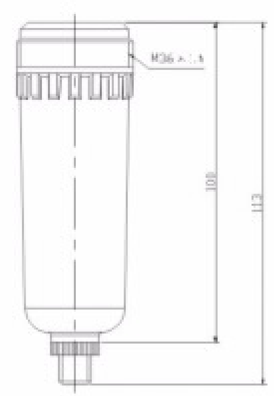
使用时，必须垂直位置安装，且使排水口朝下。

When using,the drainer should be installed ver tically the drain port facing down.

杠杆式自动排水器
Lever type auto drain
HADV-200-G10



HADV-200-G10



HADV-200-G10(带水杯)

水杯连接部位尺寸图
Dimensional drawing of water cup conneting part

适用范围：此型号适用于AC2000、AC2010、AF2000、AW2000、HLC20、HLC20A、HLF20、HLW20等产品(HACE系列也同样适用)

Application Range: The model is used for AC2000,AC2010,AF2000，AW2000，HLC20, HLC20A,HLF20,HLW20 and HACE2000 series products.

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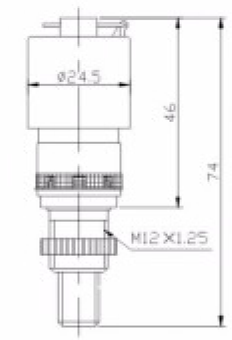
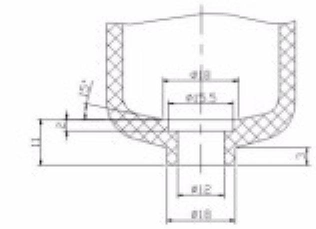
杠杆式自动排水器
Lever type auto drain
HADV-300-GW12



HADV-300-GW12

水杯连接部位尺寸图
Dimensional drawing of water cup conneting part

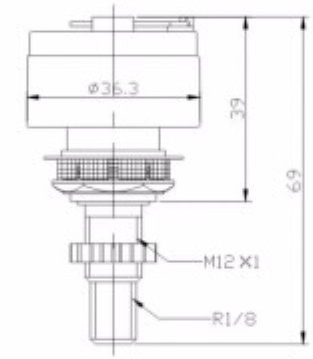


HADV-300-GW12

适用范围：此型号适用于AC3000、AC3010、AF3000、AW3000、HLC30、HLC30A、HLF30、HLW30等产品(H系列、HACE系列也同样适用)

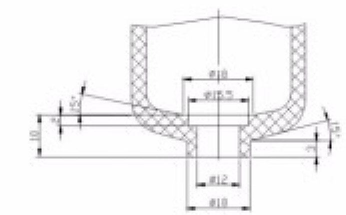
Application Range: The model is used for AC3000,AC3010,AF3000 ,AW3000 ,HLC30, HLC30A,HLF30,HLW30 and H and HACE series products.

杠杆式自动排水器
Lever type auto drain
HADV-400-GW12



HADV-400-GW12

水杯连接部位尺寸图
Dimensional drawing of water cup conneting part

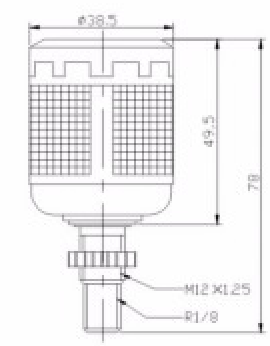


HADV-400-GW12

适用范围：此两种型号适用于AC4000\5000、AC4010\5010、AF4000\5000、AW4000\5000等产品(H系列、HACE系列也同样适用)

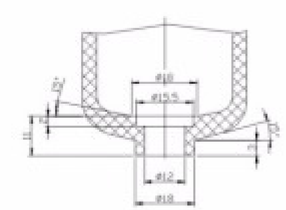
Application Range: The model is used for AC4000\5000,AC4010\5010,AF4000\5000, AW4000\5000 and H and HACE series products.

浮球式自动排水器
Float type auto drain
HADV400-FW12



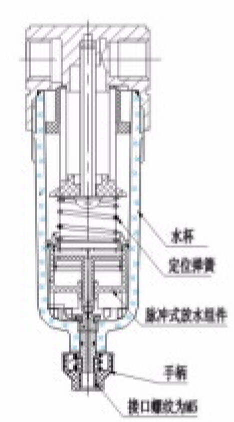
HADV400-FW12

水杯连接部位尺寸图
Dimensional drawing of water cup conneting part



HADV400-FW12

MCAD200
脉冲式自动放水器
Pulsed type auto drain



适用范围：此型号适用于AC2000、AC2010、AF2000、AW2000等产品（HACE系列也同样适用）

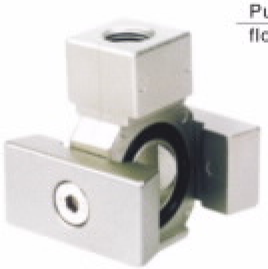
特性:脉冲式自动放水器是当进气端压力与次压侧压力发生压差变化（如电磁阀换向、气缸动作时产生的压力降）时，在压力变化瞬间打开排水口进行排水的放水装置。将手柄上推，可实现人工排水。此放水装置不能用于压力没有变化或变化很小的场合。

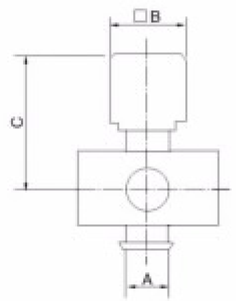
Application Range: The model is used for AC2000,AC2010,AF2000 AW2000 and HACE2000 series products.

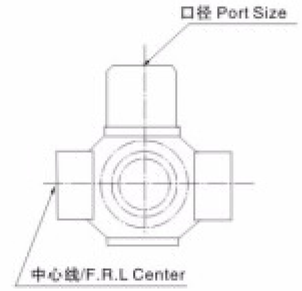
Performance: When the inlet pressure and other side pressure is changed, it will be auto drain. For example, the solenoid valve change the direction, the cylinder acting etc. If you push the button, it can be manu drain. This device cann't be used without pressure changed or changed very little.

气源处理元件—附件 / Accessories for FRLs
T型隔板/T-TypeSpacer

用途:使用T型隔板,引出分支气路
Purpose:To derivate another air flow using the "T" type spacer.

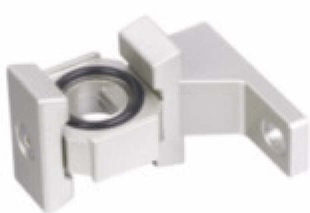






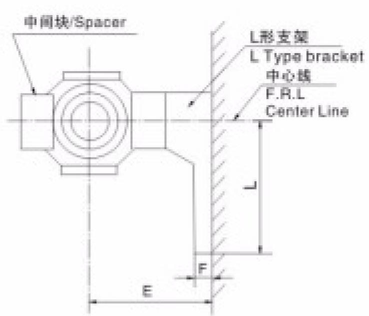
型号/Model	接管口径/Port Size(G)	A	B	C	使用型号/Applicable Model
Y21-01	G1/8	10	19	29	AC2000
Y21-02	G1/4				
Y31-01	G1/8	11	19	33	AC3000
Y31-02	G1/4				
Y41-02	G1/4	14	24	39	AC4000
Y41-03	G3/8				
Y61-03	G3/8	15	30	50.5	AC5000
Y61-04	G1/2				

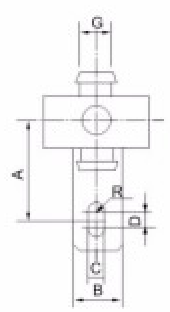
气源处理元件—附件 / Accessories for FRLs
L形支架/带L型支架中间块/L Type bracket / Spacer with L- Type bracket



带L形支架中间块
/Spacer with L-Type Bracket

L形支架
/L-Type Bracket





L 型支架/L-Type Bracket	带L型支架中间块/Spacer with L-Tpe Bracket	A	B	C	D	E	F	G	R	L	使用型号/Applicable Model
B110L	Y10L	20	12	4.5	3	25	5	8	2.25	27	AC1000
B210L	Y20L	24	15	5.5	3	30	5	10	2.75	33	AC2000
B310L	Y30L	35	16	7	4	41	7	11	3.5	45	AC2500~3000
B410L	Y40L	40	22	9	4	50	7	14	4.5	50	AC4000/HACE4000
B510L	Y50L	40	22	9	4	50	7	14	4.5	50	AC4000-06/HACE4000-06
B610L	Y60L	50	23	12	4	69.8	10.5	15	6	63	AC5000/HACE5000
B210LE	Y20LE	24	15	5.5	3	30	5	10	2.75	33	HACE2000
B310LE	Y30LE	35	16	7	4	41	7	11	3.5	45	HACE3000

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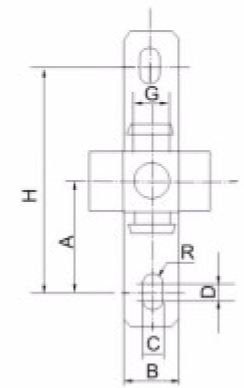
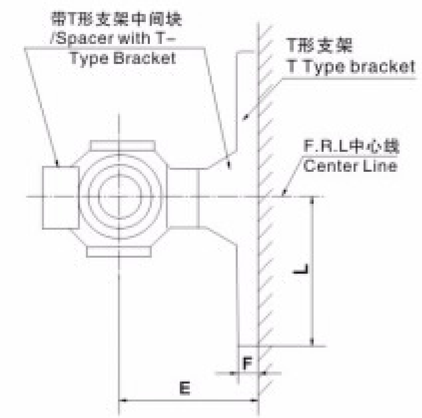
气源处理元件—附件 / Accessories for FRLs
T形支架/带T型支架中间块/T-Type bracket/ Spacer with T-Type bracket

带T形支架中间块
/Spacer with T-Type Bracket

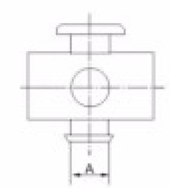
T形支架
/T-Type Bracket

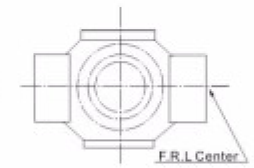




T 型支架/T-Type Bracket	带T型支架中间块/Spacer with T-Tpe Bracket	A	B	C	D	E	F	G	R	L	使用型号/Applicable Model
B110T	Y10T	20	12	4.5	3	25	5	8	2.25	27	AC1010
B210T	Y20T	24	15	5.5	3	30	5	10	2.75	33	AC2010
B310T	Y30T	35	16	7	4	41	7	11	3.5	45	AC3010
B410T	Y40T	40	22	9	4	50	7	14	4.5	50	AC4010/HACE4010
B510T	Y50T	40	22	9	4	50	7	14	4.5	50	AC4010-06/HACE4010-06
B610T	Y60T	50	23	12	4	69.8	10.5	15	6	63	AC5010/HACE5010
B210TE	Y20TE	24	15	5.5	3	30	5	10	2.75	33	HACE2010
B310TE	Y30TE	35	16	7	4	41	7	11	3.5	45	HACE3010

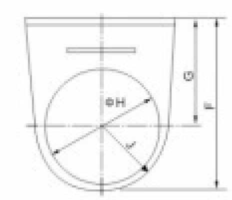
气源处理元件—附件 / Accessories for FRLs
Y形中间块/Y-TypeSpacer

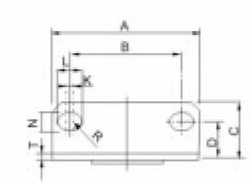




型号/Model	A	使用型号 Applicable Model
Y10	8	AC1000
Y20	10	AC2000
Y30	11	AC2500~3000
Y40	14	AC4000
Y50	14	AC4000~06
Y60	15	AC5000

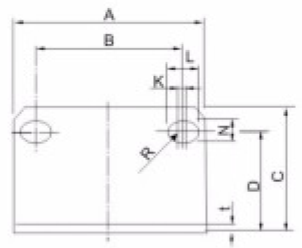
气源处理元件—附件 / Accessories for FRLs
20形支架/20-Typebracket 适用于ApplicableAR/AW

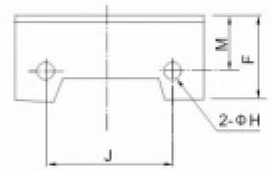




AR-AW型支架 Type Bracket	A	B	C	D	F	G	ΦH	J	K	L	N	R	T	使用型号/Applicable Model
B120	40	28	17	11	37.8	25	20.5	12.3	2	6.5	4.5	2.25	2	AR/AW1000
B220	55	34	25	19	50	30	33.5	20	10	15.4	5.4	2.7	2.3	AR/AW2000/AR2500
B320	53	40	21.5	14	64	39	42.5	25	1.5	8	6.5	3.25	2.3	AR/AW3000
B420	70	54	27	18	79.2	49.2	52.5	30	2	10.5	8.5	4.26	2.3	AR/AW4000-5000 AW4000-5000 HLR30/40、HLW30/40

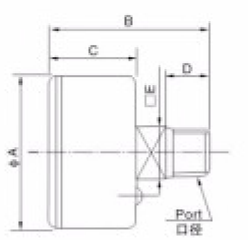
气源处理元件—附件 / Accessories for FRLs
40形支架40-Type bracket 适用于ApplicableAF/AL





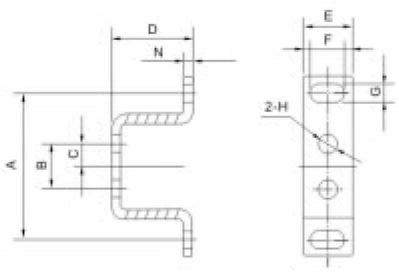
型号/Model	A	B	C	D	F	G	ΦH	J	K	L	N	R	t	安装螺钉 Fixing screw	适用型号 Applicable Model
B240	40	27	33	27	18	4.5	26	3	8.4	14	5.4	2.7	2.3	M4×8	AF/AL2000
B340	53	40	39	32	22.5	4.5	35	1.5	8	19	6.5	3.25	2.3	M4×8	AF/AL3000
B440	70	54	47	38	31.5	5.5	47	2	10.5	20	8.5	4.25	2.3	M5×10	AF/AL4000
B540	70	54	47	38	27.5	5.5	47	2	10.5	20	8.5	4.25	2.3	M5×10	AF/AL4000-06
B640	90	66	64	52	43	6.5	60	2	13	29	11	5.5	3.2	M6×10	AF/AL5000

气源处理元件—附件 / Accessories for FRLs
压力表/Pressure Gauge



型号/Model	压力范围 /Pressure Range		A	B	C	D	E	适用型号 Applicable Model
G27-10-R1	0~1MPa(红色/Red) 0~150psi(蓝色/Blue)	G1/16	26	17.5	11	6.5	21	AR1000 AW1000
G36-10-01		G1/8	42	38.5	24	10	11	AR2000~3000 AW2000~3000
G46-10-02		G1/4	52.5	43.5	25	10	14	AR4000~5000 AW4000~5000

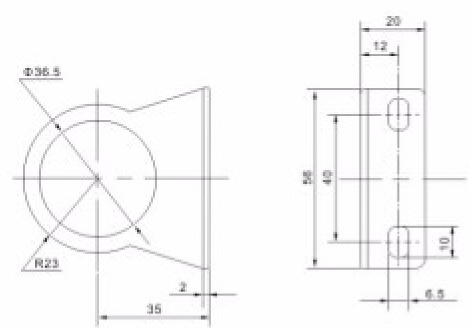
气源处理元件—附件 / Accessories for FRLs
HFOE支架



型号/Model	A	B	C	D	E	F	G	H	N
HFOE20	35	11	5.5	19	12	7.3	4.3	4.3	2
HFOE30	60	22	16.5	19	14	8.3	5.3	5.3	3

仅适用HL系列气源处理元件

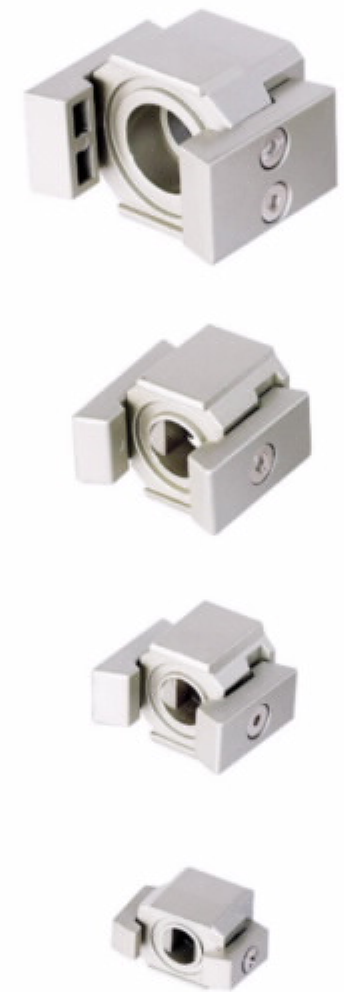
气源处理元件—附件 / Accessories for FRLs
HR20支架/仅适用于HLR/HLW20



管接头/Piping Adapter

特性/Features:

不拆下配管便可装拆元件，便于维修 /
You can install and remove the components with out taking apart the pipe it is easy for repairing.



技术参数/Technical Parameters:

型号 / Model	口径 / Port size	A	B	C	适用于的型号 / Applicable Model
HE20-01	1/8	23	22	22	AC2000、AC2010、AF2000、AR2010、AL2000、AW2010
HE20-02	1/4				
HE20-03	3/8				
HE30-02	1/4	26	34	29	AC2500、AC3000、AF3010、AR2500、AR2500、AF3000、AR3000、AL3000、AW3000
HE30-03	3/8				
HE30-04	1/2				
HE40-03	3/8	33	42	35	AC4000、AC4010、AF4000、AR4000、AL4000、AW4000
HE40-04	1/2				
HE60-06	3/4	40	54	55	AC5000、AC5010、AF5000、AR5000、AL5000、AW5000
HE60-10	1				

* 当需要连L型或T型托架管接头时，请按下列方式订货。

例: L型托架: HE30L-02

T型托架: HE40T-04

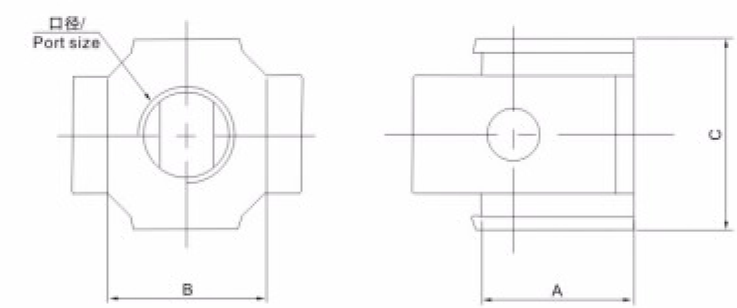
*If you want to order the piping adapter with "L" type of "T" type bracket,

Please order as below:

For example:

"L" type bracket: HE30L-02

"T" type bracket: HE40T-04



喷气吹尘枪系列 / AIR BLOW GUNS
PQQ喷气枪 / PQQ Air Gun

用途/Application

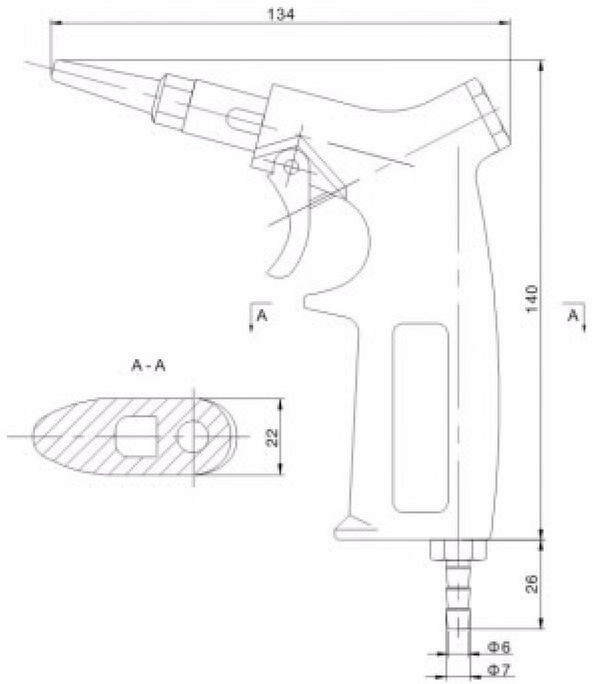
本产品用于吹净零件内、外表面、机床或工作台上的切屑、灰尘及其它杂质，特别适用于机加工和装配等场所。

This prduct is used to blow off the metal chips left inside the parts, external surfaces, machine tools or operating platforms as well as dusts and other foreign substances. It is especially suitable for the occasions of machining and assembly.

特点/Features:

- 产品技术先进，设计合理，外形美观，手握感舒适，操作方便;
- 枪体由铝合金压铸成形，重量轻;
- 喷气嘴由铜合金加工而成，比其它材料的喷气枪坚固耐用。
- This product is advanced in technology and reasonable in design. It has comfortable hold feel and easy operation.
- The gun are die-cast by aluminum alloy and are very light.
- Made of aluminum alloy and formed through die-casting, the gun is quite light. The air nozzle is made of copper alloy, which makes the gun stronger and more durable than those made of other materials.

外形尺寸图/OverallDimensionDrawing(mm)



技术参数/Technical Parameters:

工作介质/Working Medium	压缩空气/Compressed Air
介质温度与环境温度/ Media and Ambient Temperature	5~60℃
公称压力/Nominal Pressure	0.8MPa
喷口通径/Spray Port Diameter	ϕ2.5mm

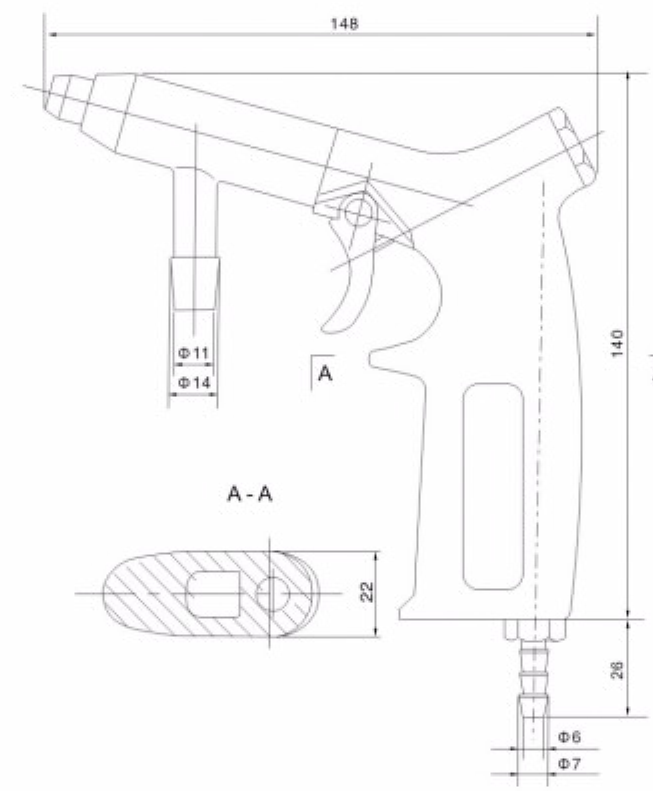
PNEUMATIC
ISO9001:2015 ROHS
XMC®

喷气吹尘枪系列 / AIR BLOW GUNS
PSQ喷砂枪/PSQ Sand Blasting Gun

特点/Features:

- 产品技术先进，设计合理，外形美观，手握感舒适，操作方便;
- 枪体和喷砂管由铝合金压铸成形，重量轻;
- 喷嘴材料为陶瓷，耐磨性能好，使用寿命长。
- This product is advanced in technology and reasonable in design.It has comfortable hold feel and easy operation.
- The gun and sand blasting pipe are die-cast by aluminum alloy and are very light.
- The spray port is made of ceramics,which has fine abrasive resistance and long service life.

外形尺寸图/OverallDimensionDrawing(mm)



技术参数/Technical Parameters:

工作介质/Working Medium	压缩空气/Compressed Air
介质温度与环境温度/ Media and Ambient Temperature	5~60℃
公称压力/Nominal Pressure	0.8MPa
喷口通径/Spray Port Diameter	ϕ2.5、ϕ5、ϕ5.5、ϕ6.5mm

喷气吹尘枪系列 / AIR BLOW GUNS
HQQ 多功能喷枪 / HQQ Multifunction Blow Guns

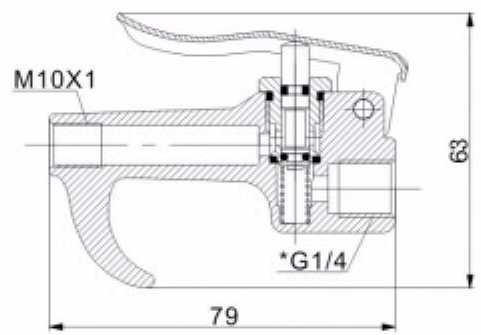
用途/Application

本产品用于吹净零件内、外表面、机床或工作台上的切屑、灰尘及其它杂质，特别适用于机加工和装配等场所。

This prduct is used to blow off the metal chips left inside the parts, external surfaces, machine tools or operating platforms as well as dusts and other foreign substances. It is especially suitable for the occasions of machining and assembly.

特点/Features

*经久耐用，使用方便/Durable ,convenient to use ;
*符合人体工学设计/Ergonomic design
*能与多种功能喷头组合使用，应用范围广
It can be used in combination with a series of functional nozzle , and applies widely



*接管口径另有NPT、Rc可供选择。

技术参数/Technical Parameters:

工作介质/Working Medium	压缩空气/Compressed Air
介质温度与环境温度/ Media and Ambient Temperature	5~60℃
公称压力/Nominal Pressure	0.8MPa
喷口通径/Spray Port Diameter	ϕ2~2.5mm

橡胶防撞喷头/Rubber fender spray

零件编号/Component No:10
描述/description:
在使用过程中，防止喷头撞损工件
In use process, prevent the nozzle collision damage of artifacts

安全助推喷头/Safe fuel nozzle

零件编号/Component No:20
描述/description:
应用文丘里管工作原理，吸入额外的空气，增强空气助推范围。
Practical writing venturi tube working principle, suction extra air, increase air booster.

吸虹管喷头/Rainbow tube absorption nozzle

零件编号/Component No:50
描述/description:
配管长6英寸普通延长管
With common extension pipe is 6 inches long

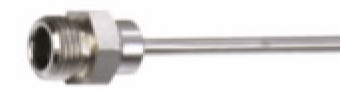
气雾喷头/Aerosol spray

零件编号/Component No:60
描述/description:
喷头头部特殊处理，能喷出气雾状气体，一般与吸虹管喷头组合使用。
Sprinkler head special processing, can spit out aerosol gas, generally used with rainbow tube absorption nozzle combination.

安全喷头/Safety shower

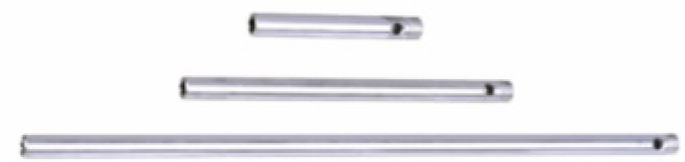
零件编号/Component No:70

针管喷头/The needle shower



零件编号/Component No:30
描述/description: 针孔Φ1mm

延长喷管/Extension of the nozzle



零件编号 /Component No	喷头名称 Nozzle name	描述 description
40	延长喷管3"	管长3英寸
41	延长喷管6"	管长6英寸
42	延长喷管12"	管长12英寸

订货举例/OExamplerder

HQQ-10

HQQ-20

HQQ-50-42
如吸虹管喷头与气雾喷头组合，则订货号：HQQ-50-42

喷气吹尘枪系列 / AIR BLOW GUNS
HQQS吹尘枪

特点/Features

*经久耐用，使用方便/Durable,convenienttouse
*符合人体工学设计/Ergonomicdesign

用途/Application

本产品用于吹净零件内、外表面、机床或工作台上的切屑、灰尘及其它杂质，特别适用于机加工和装配等场所。

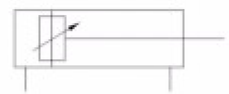
This prduct is used to blow off the metal chips left inside the parts, external surfaces,machine tools or operating platforms as well as dusts and other foreign substances.It is especially suitable for the occasions of machining and assembly.

技术参数/Technical Parameters:

工作介质/Working Medium	压缩空气/Compressed Air
介质温度与环境温度/ Media and Ambient Temperature	5~60℃
公称压力/Nominal Pressure	0.8MPa
喷口通径/Spray Port Diameter	ϕ2~2.5mm
接管口径Port size(G)	G1/4(另有NPT、RC可供选择)

HC95系列 ISO＋欧州标准气缸 / Series ISO+European Standard Cylinder
HC95系列 / Series(Φ32～Φ125)

符号/symbol



特点/Features:

- 根据下列标准：VDMA24562,DIN24335,ISO15552,(ISO6431);
- 重要密封件采用日本进口件；
- 采用PP型缓冲密封件，具有下列优点：
  a. 具有单向阀功能，气缸启动速度快；
  b. 具有自动对中作用，缓冲效果极佳，且气缸运行平稳，避免了因偏心而引起的活塞杆在行程末端的跳动现象；
- **According to the following standards:VDMA 24562,DIN 24335,ISO15552,(ISO6431);**
- **The important sealing elements are imported from Japan;**
- **Type PP cushion sealing elements are applied which enjoy the following advantages:**

a. In possession of the functions of non-return valve with quick start-up speed of the cylinder;
b. In possession of the function of self-centering with excellent cushion effect and stead cylinder operation which has avoided the up-down movements of piston rod at the end of traveled distance caused by eccentricity;

订购码/Ordering Code

HC95 D W B — 63 x 125 — XC8

磁环/Magnet	活塞杆/Piston rod	安装型式/Mounting type	缸径/cylinder bore (mm)	行程/Stroke (mm)	特殊设计气缸 /Special design cylinder
无/Without-标准/Standard D-内置磁环/with magnet	无/Without-单活塞杆/Single rod W-双活塞杆/double rod	B-基本型/Basic type L-轴向脚座/Axial foot seat F-前法兰/Front Flange G-后法兰/Rear Flange C-单耳座/Single ear Seat D-双耳座/Double ear Seat T-中间轴销/Middle Axie pin			无/without-标准/Standard XC8-行程可调/ The sttoke can be adjusted 0-50mm

订货举例 / Order Exanple:

1.所需缸径Φ63mm,行程125mm，单活塞杆，基本型气缸
/For order of diaΦ63mm,Stroke 125mm,Singlep iston rod,basic type cylinder;正确型号/Correct type：HC95B-63x125
2.所需缸径Φ63mm,行程125mm，单活塞杆，内置磁环，基本型气缸
/For order of idaΦ63mm,Stroke 125mm,Single piston rod,With magnet,basic type cylinder,正确型号/Correct type：HC95DB-63x125
3.所需缸径Φ80mm,行程100mm，双活塞杆，内置磁环，基本型气缸
/For order ofΦ80mm,Stroke 100mm,double piston rod,With magnet basic typec ylinder.正确型号/Correct type：HC95DWB-80x100
4.所需缸径Φ32mm,行程80mm，单活塞杆,安装方法前法兰
/For order of diaΦ32mm,stroke 80mm,Single piston rod Front flange mounting type正确型号/Correct type：HC95F-32x80
5.所需缸径Φ50mm,行程100mm，单活塞杆，内置磁环，双耳座安装气缸
/For order of diaΦ50mm,Stroke 100mm,Single piston with magnet,double ear seat mounting type cylinder.正确型号Correct type：HC95DD-50x100

规格 /Specification

缸径 / Cylinder Diameter(mm)		32	40	50	63	80	100	125
工作介质 / Working Medium		经过滤的压缩空气/ Filtered Compressed Air						
动作型式 /Action model		双动 /Double acting						
保证耐压力 / Ensured Pressure Resistance		1.5MPa(15Kgf/cm²)						
最高使用压力 /Maximum Working Pressure		1.0MPa(10Kgf/cm²)						
最低使用压力/Minimum Working-pressure		0.1MPa(1Kgf/cm²)						
环境和介质温度 / Ambient and Medium and Temperature		5～60℃						
缓冲/ Cushion		橡胶缓冲/Cushion						
使用速度/Working Speed		50-500mm/s						
*润滑 / Lubrication		不需要 /Not Required						
接管口径/ Joint iube caliber		G1/8	G1/4		G3/8		G1/2	
行程误差/ Travel Distance Error(mm)	行程/Travel Distance (mm)	0-250			251-800			
	误差/Error(mm)	0-1			0-1.5			

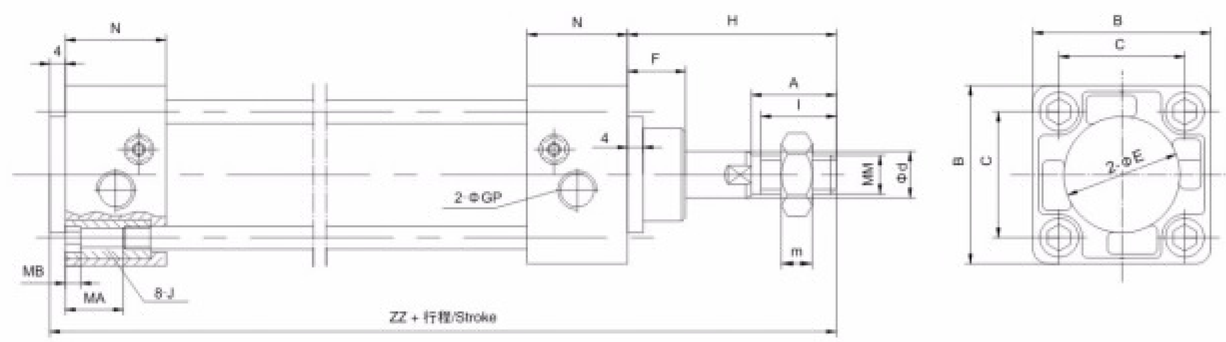
*如需要润滑,请用透平1号油ISOVG32. / * In case lubrication is required,please use turbine No.1 oill SOVG32.

行程Stroke/磁性开关选择Magnet Switch choose

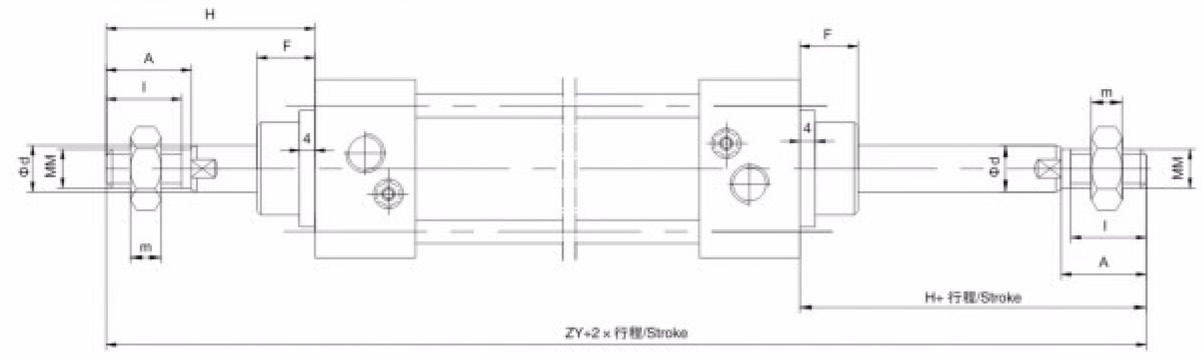
缸径/ Cylinder Diameter(mm)	标准行程/ Standard Traveled Distance(mm)
32	25,40,50,80,100,125,160,175,200,250,300,350,400,450,500
40	
50	25,40,50,80,100,125,160,175,200,250,300,350,400,450,500
63	
80	25,40,50,80,100,125,160,175,200,250,300,350,400,450,500,600,700,750,800
100、125	

缸径/ Cylinder Diameter (mm)	磁性开关 /Magnet Switch	开关固定夹具 /Tools of fixing the switch	
		米字缸	拉杆缸/ Tierod type
32、40、50	AL-20R	P1-1	PAC
63、80		P1-2	
100		P1-4	
125		-	

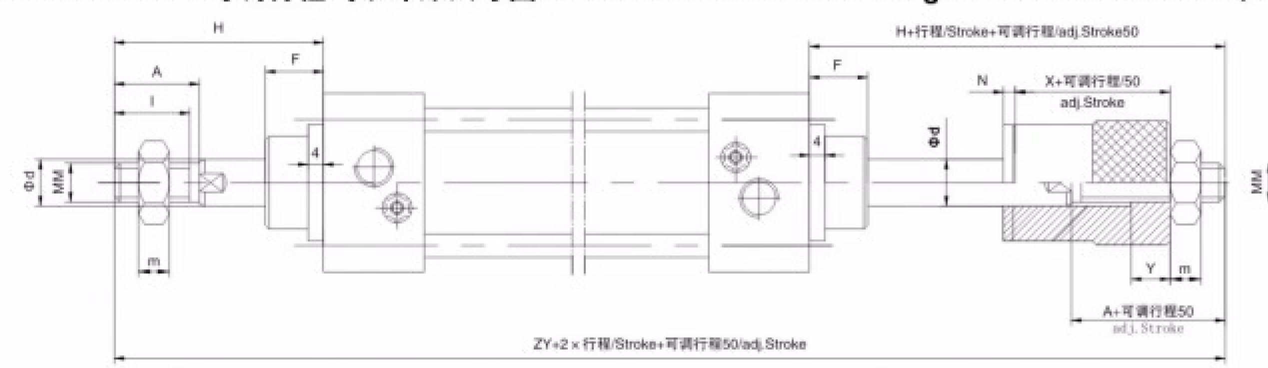
HC95B基本型外形尺寸图 Overall Dimension Drawing of HC95B Basic Type(mm)



HC95WB双活塞杆气缸外形尺寸图 Overall Dimension Drawing of HC95WB Double Rod(mm)

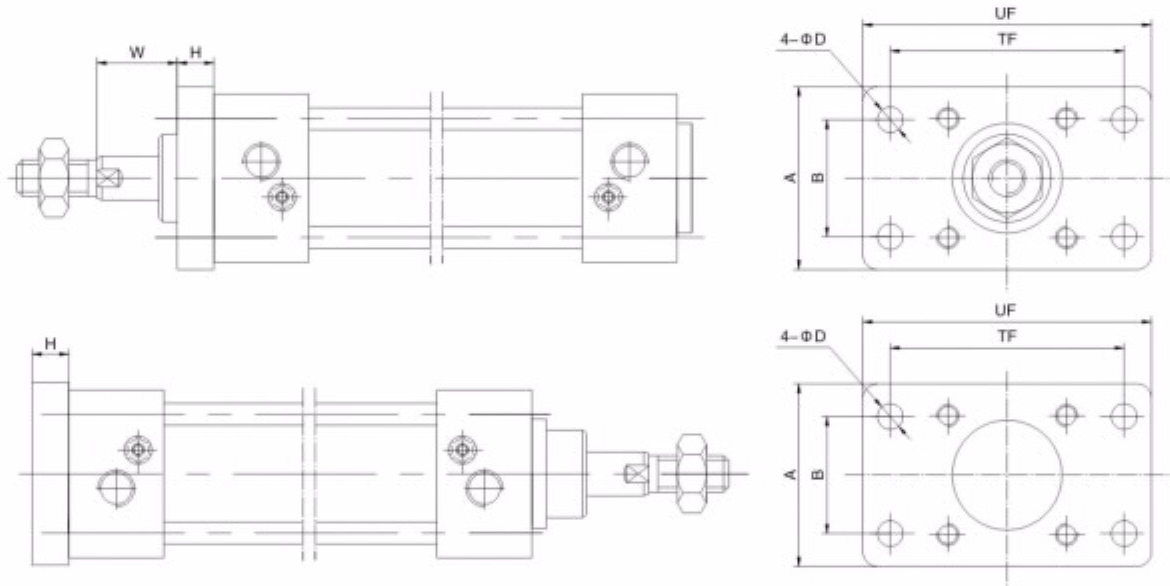


HC95B-DxS-XC8可调行程气缸外形尺寸图 Overall Dimension Drawing of HC95B-DXS-XC8(mm)



缸径/ Bore Size	B	C	d	MM	m	I	A	F	H	N	MA	MB	J	GP	ΦE	ZY	X	Y	n	ZZ
Φ32	46	32.5	Φ12	M10x1.25	5	19.5	22	15	48	26	15	4	M6	G1/8	Φ30	190	22	10	3	146
Φ40	52	38	Φ16	M12x1.25	6	21	24	17	54	26	15	4	M6	G1/4	Φ35	213	25	11	3	163
Φ50	65	46.5	Φ20	M16x1.5	8	29	32	24	69	29.5	15	5	M8	G1/4	Φ40	244	29	15	4	179
Φ63	75	56.5	Φ20	M16x1.5	8	29	32	24	69	29.5	15	5	M8	G3/8	Φ45	259	29	15	4	194
Φ80	95	72	Φ25	M20x1.5	10	37	40	30	86	35	16	5	M10	G3/8	Φ45	300	36	20	5	218
Φ100	114	89	Φ30	M20x1.5	10	37	40	32	91	35	16	5	M10	G1/2	Φ55	320	39	20	5	233
Φ125	140	110	Φ32	M27x2	13.5	50	54	45	119	46	20	6	M12	G1/2	Φ60	398	45	24	6	284

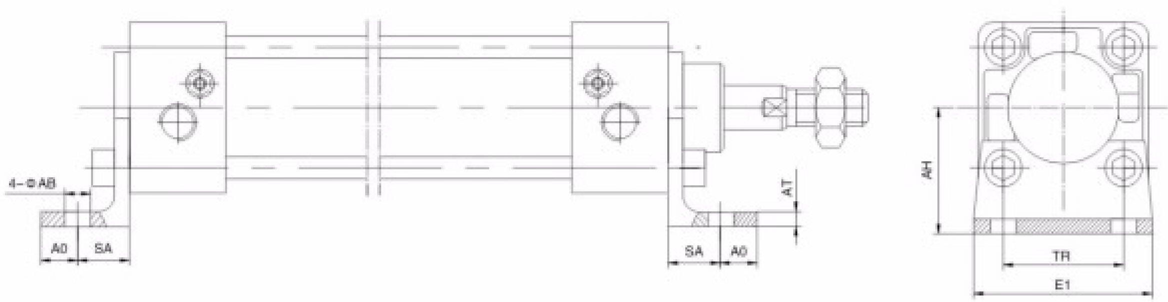
HC95F前法兰、 HC95G 后法兰 外形尺寸图
Overall Dimension Drawing of HC95F Front Flange and HC95G Rear Flange (mm)



缸径/ Bore Size	法兰图号 /Flange	D	A	B	UF	TF	H	W
Φ32	F32	Φ7	50	32	79	64	10	16
Φ40	F40	Φ9	55	36	90	72	10	20
Φ50	F50	Φ9	70	45	110	90	12	25
Φ63	F63	Φ9	80	50	120	100	12	25
Φ80	F80	Φ12	100	63	153	126	16	30
Φ100	F100	Φ14	120	75	178	150	16	35
Φ125	F125	Φ16	140	90	220	180	20	45

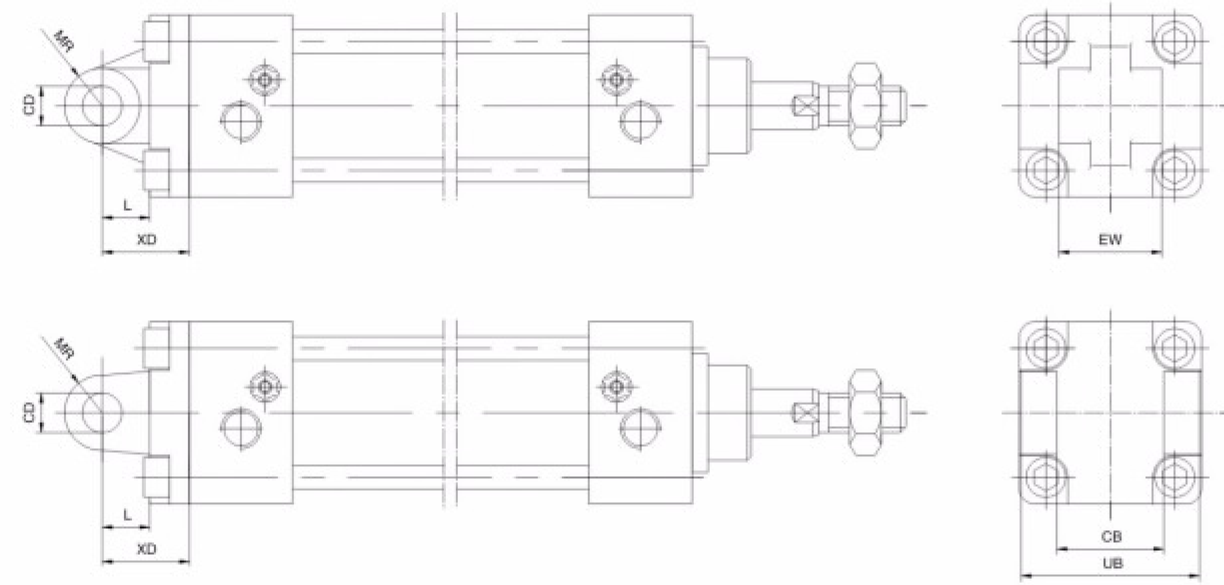
说明/Remark：
① 前法兰与后法兰通用.
① Front flange and rear Flange are the same
② HMB系列气缸法兰与HC95系列气缸法兰通用。
② Fange of HMB Series cylinder and Flange of HC95 series Cylinder are the same.

HC95L轴向脚座外形尺寸图Overall Dimension Drawing of HC95L Axial Foot Seat(mm)



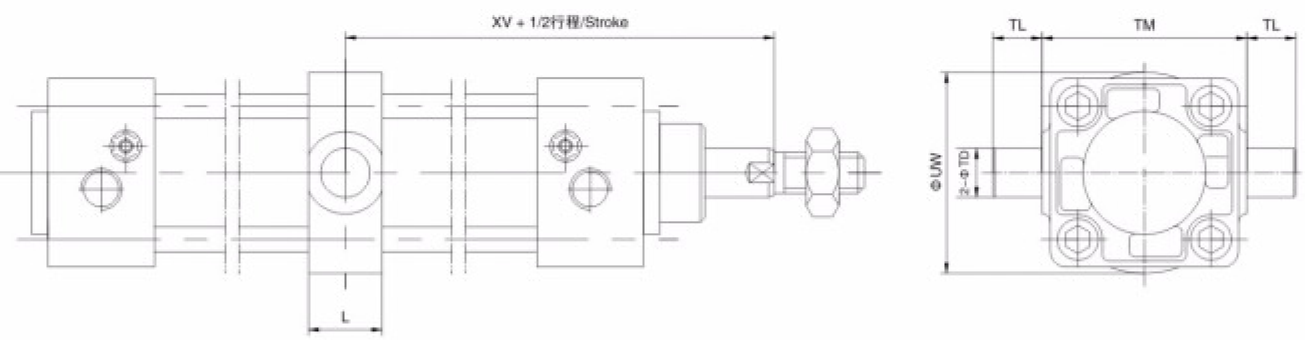
缸径/ Bore Size	轴向脚座图号 /Axial foot Seat	AH	E1	TR	SA	A0	ΦAB	AT
Φ32	HC95-L32	32	48	32	24	10	Φ7	4
Φ40	HC95-L40	36	55	36	28	11	Φ9	4
Φ50	HC95-L50	45	68	45	32	12	Φ9	5
Φ63	HC95-L63	80	80	50	32	12	Φ9	5
Φ80	HC95-L80	63	100	63	41	14	Φ12	6
Φ100	HC95-L100	71	120	75	41	16	Φ14	6
Φ125	HC95-L125	90	140	90	45	20	Φ16	8

HC95C单耳座、 HC95D双耳座外形尺寸图
Overall Dimension Drawing of HC95C Single Ear Seat and HC95D Double Ear Seat(mm)



缸径/ Bore Size	单耳座图号/ Single ear seat	双耳座图号/ Double ear seat	XD	L	MR	CD	EW	CB	UB
Φ32	HC95-C32	HC95-D32	22	12	R9.5	Φ10H9	26	26	45
Φ40	HC95-C40	HC95-D40	25	15	R12	Φ12H9	28	28	52
Φ50	HC95-C50	HC95-D50	27	15	R12	Φ12H9	32	32	60
Φ63	HC95-C63	HC95-D63	32	20	R16	Φ16H9	40	40	70
Φ80	HC95-C80	HC95-D80	36	20	R16	Φ16H9	50	50	90
Φ100	HC95-C100	HC95-D100	41	25	R20	Φ20H9	60	60	110
Φ125	HC95-C125	HC95-D125	50	30	R25	Φ25H9	70	70	120

HC95T中间轴销外形尺寸图Overall Dimension Drawing of HC95T Middle Axie Pin(mm)

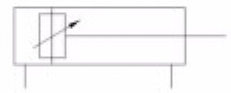


缸径/ Bore Size	中间轴销图号/ Middle Axie Pin	TL	TM $^{-0.1}_{-0.3}$	ΦTD	ΦUW	L	XV
Φ32	T32	12	50	Φ12e9	Φ49	18	73
Φ40	T40	16	63	Φ16e9	Φ58	22	82.5
Φ50	T50	16	75	Φ16e9	Φ71	24	90
Φ63	T63	20	90	Φ20e9	Φ87	28	97.5
Φ80	T80	20	110	Φ20e9	Φ110	34	110
Φ100	T100	25	132	Φ25e9	Φ136	40	120
Φ125	T125	25	160	Φ25e9	Φ160	44	145

说明/Remark：
HMB系列气缸的中间轴销与HC95系列气缸的中间轴销通用。
The middle Axie pin of HMB Series cylinder and the middle axie pin of Hc95 series cylinder are the same.

HMB 系列日本标准气缸 / HMB Series Japan Standard Cylinder
HMB 系列/Series(Φ32～Φ100)

符号/symbol



特点/Features:

- 重要密封件采用日本进口件；
- 采用PP型缓冲密封件，具有下列优点：
  - a.具有单向阀功能，气缸启动速度快；
  - B.具有自动对中作用，缓冲效果极佳，且气缸运行平稳，避免了因偏心而引起的活塞杆在行程末端的跳动现象；
- **The important sealing elements are imported from Japan;**
- **Type PP cushion sealing elements are applied which enjoy the following advantages:**
  - A.In possession of the functions of non-return valve with quick start-up speed of the cylinder;
  - B.In possession of the function of self-centering with excellent cushion effect and stead cylinder operation which has avoided the up-down movements of piston rod at the end of traveled distance caused by eccentricity;

订购码/Ordering Code

HM D B W B — 50 x 125 — XC8

- **磁环/Magnet**: 无/Without- 标准/Standard; D-内置磁环/with magnet
- **活塞杆/Piston rod**: 无/Without- 单活塞杆/Single rod; W-双活塞杆/double rod
- **安装型式/Mounting type**: B-基本型/Basic type; L-轴向脚座/Axial foot seat; F-前法兰/Front Flange; G-后法兰/Rear Flange; C-单耳座/Single ear Seat; D-双耳座/Double ear Seat; T-中间轴销/Middle Axie pin
- **缸径/cylinder bore** (mm)
- **行程/Stroke** (mm)
- **特殊设计气缸/Special design cylinder**: 无/without-标准/Standard; XC8-行程可调/The sttoke can be adjusted 0~50mm

订货举例 / Order Exanple:

1.所需缸径Φ50mm,行程125mm，单活塞杆，基本型气缸
/For order of diaΦ650mm,Stroke 125mm,Singlep iston rod,basic type cylinder;正确型号/Correct type：HMBB-50X125
2.所需缸径Φ80mm,行程100mm，单活塞杆，内置磁环，双耳座安装气缸
/For order of idaΦ80mm,Stroke 100mm,Single piston rod,With magnet,Double ear Seats mounting cylinder,正确型号/Correct type：HMDBD-80X100
3.所需缸径Φ32mm,行程150mm，双活塞杆，基本型气缸
/For order ofΦ32mm,Stroke150mm,double piston rod, basic type cylinder.正确型号/Correct type：HMBWB-32x150
4.所需缸径Φ100mm,行程75mm，行程可调0-50mm,前法兰安装气缸
/For order of diaΦ100mm,stroke 75mm,Front flange mounting cylinder正确型号/Correct type：HMBF-100x75-XC8

规格 /Specification

缸径 / Cylinder Diameter(mm)		32	40	50	63	80	100
工作介质 / Working Medium		经过滤的压缩空气/ Filtered Compressed Air					
动作型式 /Action model		双动 /Double acting					
保证耐压力 / Ensured Pressure Resistance		1.5MPa(15Kgf/cm²)					
最高使用压力 /Maximum Working Pressure		1.0MPa(10Kgf/cm²)					
最低使用压力/Minimum Working-pressure		0.1MPa(1Kgf/cm²)					
环境和介质温度 / Ambient and Medium and Temperature		5～60℃					
缓冲/ Cushion		气缓冲/Air Cushion					
使用速度/Working Speed		50~500mm/s					
*润滑 / Lubrication		不需要 /Not Required					
接管口径/ Joint iube caliber		G1/8	G1/4		G3/8		G1/2
行程误差/ Travel Distance Error(mm)	行程/Travel Distance (mm)	0~250				251~800	
	误差/Error(mm)	0~1				0~1.5	

*如需要润滑,请用透平1号油ISOVG32. / * In case lubrication is required,please use turbine No.1 oill SOVG32.

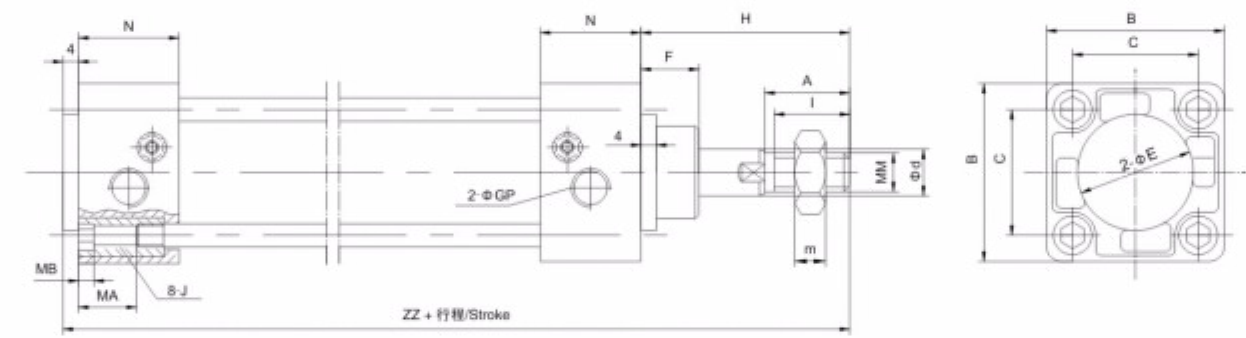
行程Stroke/磁性开关选择Magnet Switch choose

缸径/ Cylinder Diameter(mm)	标准行程/ Standard Traveled Distance(mm)
32	25,50,75,100,125,150,175,200,250,300,350,400,450,500
40	
50	25,50,75,100,125,150,175,200,250,300,350,400,450,500,600
63	
80	25,50,75,100,125,150,175,200,250,300,350,400,450,500,600,700,750
100	

缸径/ Cylinder Diameter (mm)	磁性开关 /Magnet Switch	开关固定夹具 /Tools of fixing the switch	
		米字缸	拉杆缸/ Tierod type
32、40、50	AL-20R	P1-1	PAC
63、80		P1-2	
100		P1-4	

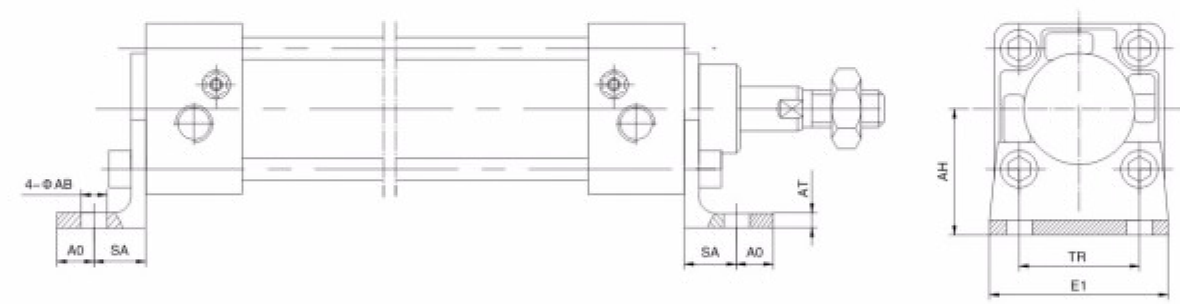
注：另有非标准行程可供。/Nonstandard strokes are available.

HMBB基本型外形尺寸图Overall Dimension Drawing of HMBB(mm)



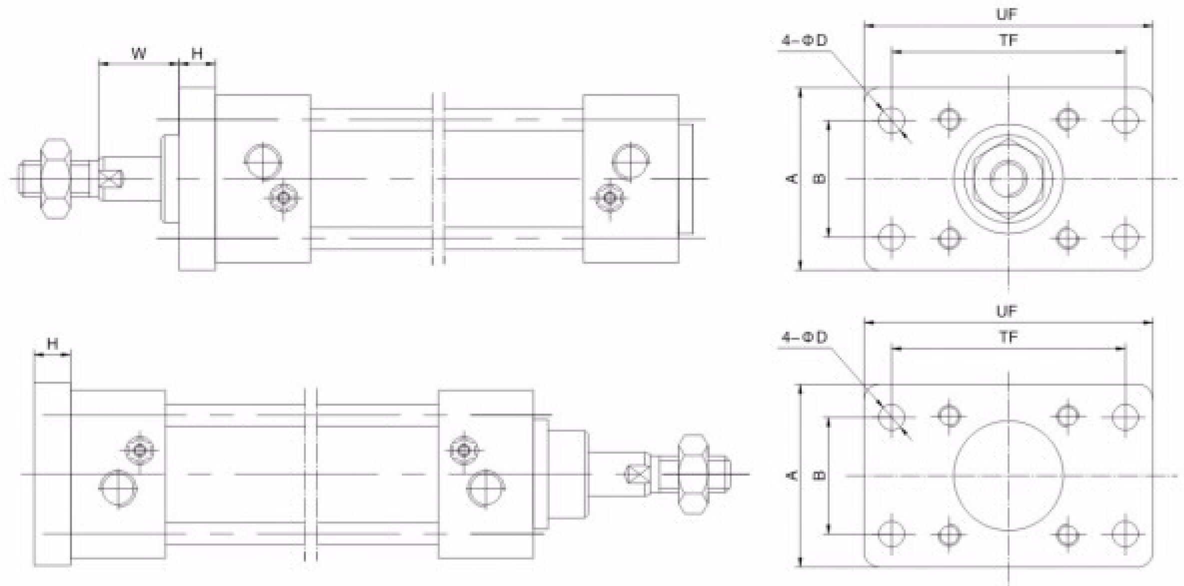
缸径/ Bore Size	MM	I	A	B	C	d	m	ΦE	F	H	N	GP	MA	MB	J	ZZ
Φ32	M10x1.25	19.5	22	46	32.5	Φ12	5	Φ30	13	47	26	G1/8	15	4	M6	135
Φ40	M14x1.5	27	30	52	38	Φ16	6	Φ35	13	51	26	G1/4	15	4	M6	139
Φ50	M18x1.5	32	35	65	46.5	Φ20	8	Φ40	14	58	29.5	G1/4	15	5	M8	156
Φ63	M16x1.5	32	35	75	56.5	Φ20	8	Φ45	14	58	29.5	G3/8	15	5	M8	156
Φ80	M22x1.5	37	40	95	72	Φ25	10	Φ45	20	72	35	G3/8	16	5	M10	190
Φ100	M26x1.5	37	40	114	89	Φ30	10	Φ55	20	72	35	G1/2	16	5	M10	190

HMBL轴向脚座外形尺寸图Overall Dimension Drawing of HMBL Axial Foot Seat(mm)



缸径/ Bore Size	轴向脚座图号 /Axial Footseal	SA	A0	ΦAB	AT	AH	TR	E1
Φ32	HMB-L32	22	9	Φ7	3.2	30	32	50
Φ40	HMB-L40	24	11	Φ9	3.2	33	38	55
Φ50	HMB-L50	27	11	Φ9	3.2	40	46	70
Φ63	HMB-L63	27	14	Φ12	3.6	45	56	80
Φ80	HMB-L80	30	14	Φ12	4.5	55	72	100
Φ100	HMB-L100	32	16	Φ14	4.5	65	89	120

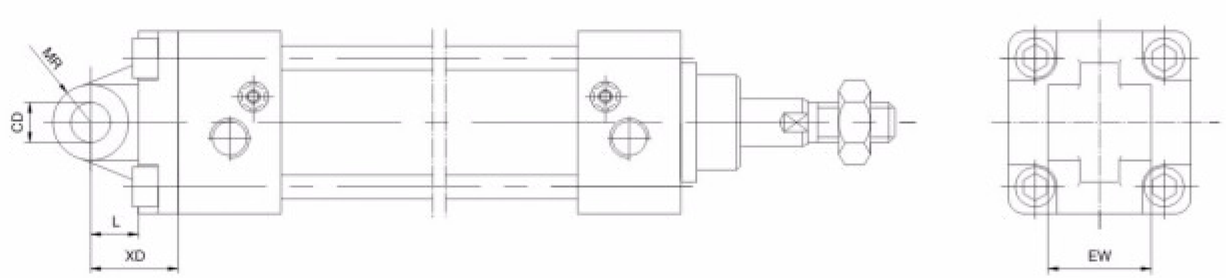
HMBF前法兰、HMBG后法兰 外形尺寸图
Overall Dimension Drawing of HMBF Front Flange and HMBG Rear Flange(mm)



缸径/ Bore Size	法兰图号 /Flange	D	A	B	UF	TF	H	W
Φ32	F32	Φ7	50	32	79	64	10	15
Φ40	F40	Φ9	55	36	90	72	10	11
Φ50	F50	Φ9	70	45	110	90	12	11
Φ63	F63	Φ9	80	50	120	100	12	11
Φ80	F80	Φ12	100	63	153	126	16	16
Φ100	F100	Φ14	120	75	178	150	16	16

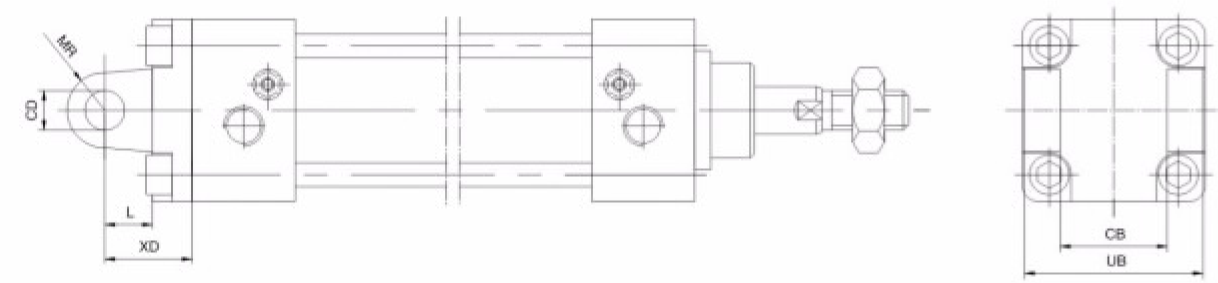
说明/Remark：
① 前法兰与后法兰通用.
① Front flange and rear Flange are the same
② HMB系列气缸法兰与HC95系列气缸法兰通用。
② Fange of HMB Series cylinder and Flange of HC95 series Cylinder are the same.

HMBC单耳座外形尺寸图/Overall Dimension Drawing HMBC Single Ear Seat(mm)



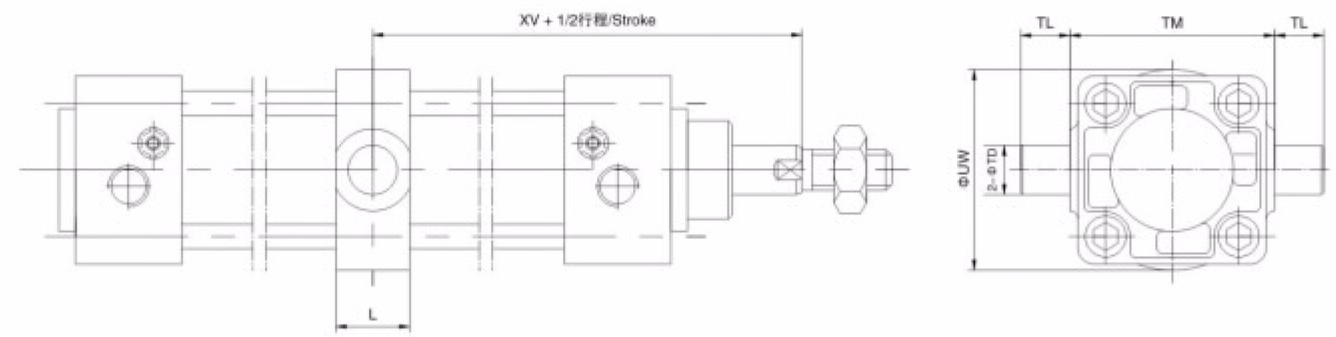
缸径/ Bore Size	单耳座图号/ Single ear seat	XD	L	MR	CD	EW
Φ32	HMB-C32	23	13	R10.5	Φ10H9	14
Φ40	HMB-C40	23	13	R11	Φ10H9	14
Φ50	HMB-C50	30	17	R15	Φ14H9	20
Φ63	HMB-C63	30	17	R15	Φ14H9	20
Φ80	HMB-C80	42	26	R23	Φ22H9	30
Φ100	HMB-C100	42	26	R23	Φ22H9	30

HMBD双耳座外形尺寸图/Overall Dimension Drawing HMBD Double Ear Seat(mm)



缸径/ Bore Size	双耳座图号/ Double ear seat	XD	L	MR	CD	CB	UB
Φ32	HMB-D32	23	13	R10.5	Φ10H9	14	28
Φ40	HMB-D40	23	13	R11	Φ10H9	14	28
Φ50	HMB-D50	30	17	R15	Φ14H9	20	40
Φ63	HMB-D63	30	17	R15	Φ14H9	20	40
Φ80	HMB-D80	42	26	R23	Φ22H9	30	60
Φ100	HMB-D100	42	26	R23	Φ22H9	30	60

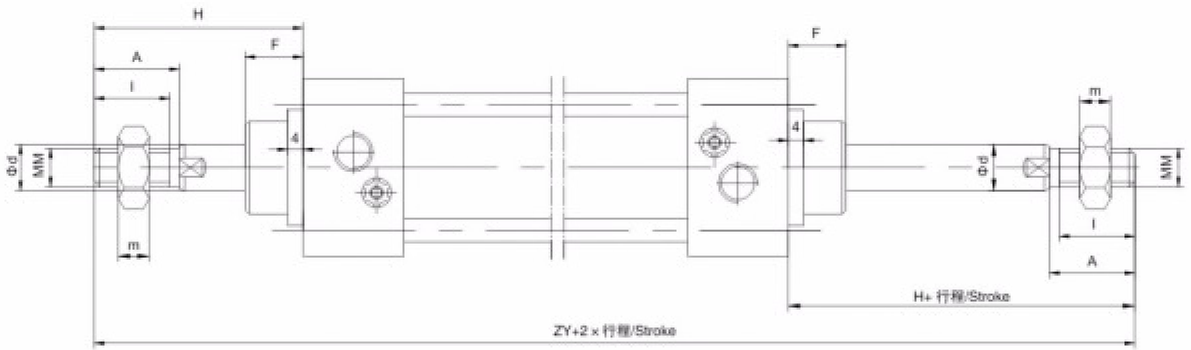
HMBT中间轴销外形尺寸图
Overall Dimension Drawing of HMBT Middle Axie Pin(mm)



缸径/ Bore Size	中间轴销图号/ Middle Axie Pin	TL	TM $^{-0.1}_{-0.3}$	ΦTD	ΦUW	L	XV
Φ32	T32	12	50	Φ12e9	Φ49	18	67
Φ40	T40	16	63	Φ16e9	Φ58	22	63
Φ50	T50	16	75	Φ16e9	Φ71	24	70
Φ63	T63	20	90	Φ20e9	Φ87	28	70
Φ80	T80	20	110	Φ20e9	Φ110	34	89
Φ100	T100	25	132	Φ25e9	Φ136	40	89

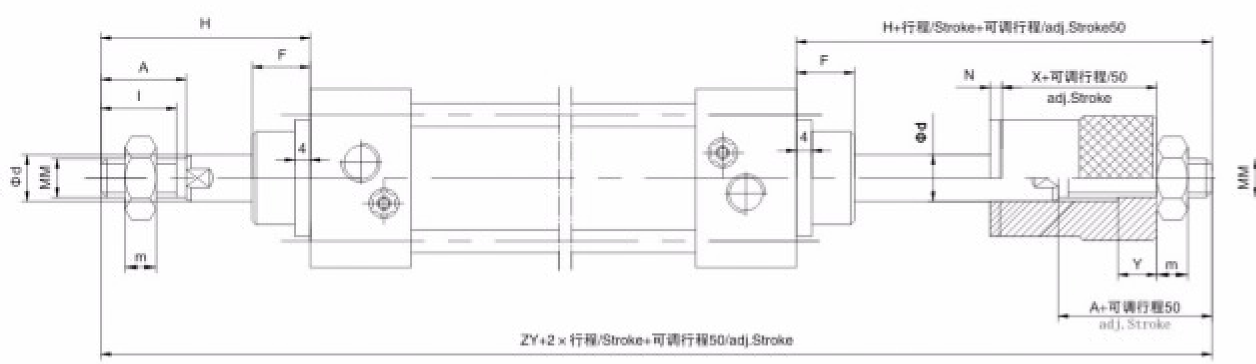
说明/Remark：
HMB系列气缸的中间轴销与HC95系列气缸的中间轴销通用。
The middle Axie pin of HMB Series cylinder and the middle axie pin of Hc95 series cylinder are the same.

HMBWB双活塞杆系列外形尺寸图(mm)
Overall Dimension Drawing of HMBWB Double Piston Rod(mm)



缸径/ Bore Size	ZY	H	F	Φd	MM	I	A	m
Φ32	178	47	13	Φ12	M10x1.25	19.5	22	5
Φ40	186	51	13	Φ16	M14x1.5	27	30	8
Φ50	210	58	14	Φ20	M18x1.5	32	35	9
Φ63	210	58	14	Φ20	M18x1.5	32	35	9
Φ80	258	72	20	Φ25	M22x1.5	37	40	10
Φ100	258	72	20	Φ30	M26x1.5	37	40	10

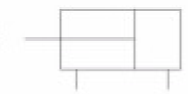
HMBB- □x □-XC8可调行程系列气缸外形尺寸图(mm)
Overall Dimension Drawing of HMBB(mm)



缸径/ Bore Size	ZY	H	F	Φd	MM	I	A	m	n	x	y
Φ32	178	47	13	Φ12	M10x1.25	19.5	22	5	3	23	10
Φ40	186	51	13	Φ16	M14x1.5	27	30	8	3	22	12
Φ50	210	58	14	Φ20	M18x1.5	32	35	9	4	26	15
Φ63	210	58	14	Φ20	M18x1.5	32	35	9	4	26	15
Φ80	258	72	20	Φ25	M22x1.5	37	40	10	5	32	20
Φ100	258	72	20	Φ30	M26x1.5	37	40	10	5	32	20

HCQ2 系列日本规格薄型气缸 / HCQ2 Series Japan Specification Compact Cylinder
HCQ2系列 / Series(Φ32~Φ100)

符号/symbol



标准规格/Specifications

缸径 / Cylinder Diameter(mm)	32	40	50	63	80	100
工作介质 / Working Medium	经过滤的压缩空气/ Filtered Compressed Air					
动作型式 /Action model	双动 /Double acting					
保证耐压力 / Ensured Pressure Resistance	1.5MPa(15Kgf/cm2)					
最高使用压力 /Highest Working Pressure	1.0MPa(10Kgf/cm2)					
介质温度与环境温度 / Medium and Ambient Temperature	5~60℃					
杆端螺纹/Screw of rod end	内螺纹(标准) / Internal thread Standard, 外螺纹(任选)/ External thread					
缓冲/ Cushion	无/Not Required					
行程公差/ Stroke tolerance	0~1.0					
*润滑 / Lubrication	不需要 /Not Required					
安装 / Mounting type	通孔(标准)，两端内螺纹(任选)/ Through hole (Standard); Both ends tapped					
接管口径/ Joint iube caliber	G1/8		G1/4		G3/8	

*如需要润滑，请用透平 1号油 ISOVG32。 /If lubricant required, please use NO.1 Oil ISOVG32.

订购码/Ordering Code

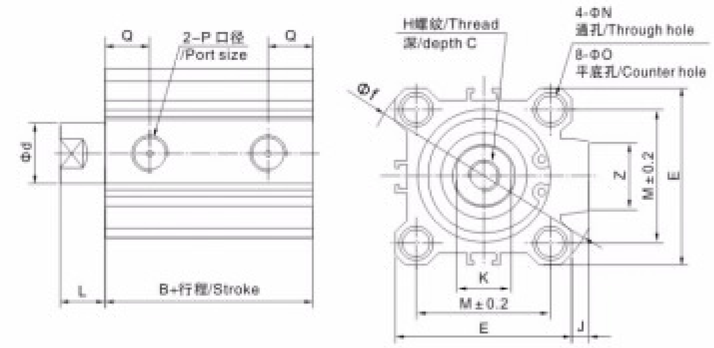
H C D Q 2 B — 32 x 10 D — M

- 磁环/Magnet: 无/Without-标准/Standard; D-内置磁环/ with magnet
- 安装型式/Mounting type: B- 通孔 /through hole; A- 两端内螺纹/both ends tapped
- 缸径/cylinder bore (mm)
- 行程/Stroke (mm)
- 动作型式 /Action type: D- 双动/ double acting
- 活塞杆螺纹 /Piston rod thread: 无 - 杆端内螺纹 / Rod end internal thread; M - 杆端外螺纹/ Rod end external thread

订货举例 / Order Exanple:

1.所需缸Φ32mm, 行程10mm,双动, 通孔安装型, 杆端内螺纹。
/For order of dia Φ32mm,stroke 10mm,double acting,cylinder through hole mounting type, rod end internal thread compact cylinder.
正确型号 /Correct type: HCQ2B-32x10-D
2.所需缸 Φ63mm,行程 30mm,双动,两端内螺纹安装型, 杆端外螺纹。
/For order of dia Φ63mm. Stroke 30mm,double acting,both ends tapped mounting type.rod end external thread.
正确型号 /Correct type: HCQ2A-63x30-DM
3.所需缸Φ80mm, 行程 50mm,双动, 内置磁环,两端内螺纹安装型,杆端内螺纹。
/For order of diaΦ80mm,stroke 50mm,double acting with magnet,both ends tapped type,rod end internal thread.
正确型号 /Correct type: HCDQ2A-80x50-D

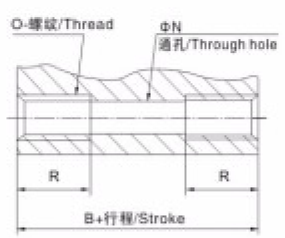
通孔安装型 /Through hole mounting type HCQ2B · HCDQ2B



缸径/ Bore Size	行程范围 Stroke range	B	(B)	Φd	L
Φ32	5	23	33	Φ16	7
	10~50				
Φ40	5~50	29.5	39.5	Φ16	7
Φ50	10~50	30.5	40.5	Φ20	8
Φ63	10~50	36	46	Φ20	8
Φ80	10~50	43.5	53.5	Φ25	10
Φ100	10~50	53	63	Φ30	12

缸径/ Bore Size	Q	P	(P)	E	J	Z	Φf	M	K	Z	H	C	ΦO	ΦN
Φ32	8.8	M5	G1/8	45	4.5	18	Φ60	34	14	18	M8	13	Φ9深7	Φ5.5
		G1/8												
Φ40	9.5	G1/8	G1/8	52	5	18	Φ69	40	14	18	M8	13	Φ9深7	Φ5.5
Φ50	11.5	G1/4	G1/4	64	7	22	Φ86	50	18	22	M10	15	Φ11深8	Φ6.6
Φ63	12.5	G1/4	G1/4	77	7	22	Φ103	60	18	22	M10	15	Φ14深10.5	Φ9
Φ80	14	G3/8	G3/8	98	6	26	Φ132	77	22	26	M16	21	Φ17深13.5	Φ11
Φ100	18	G3/8	G3/8	117	6.5	26	Φ156	94	27	26	M20	27	Φ17深13.5	Φ11

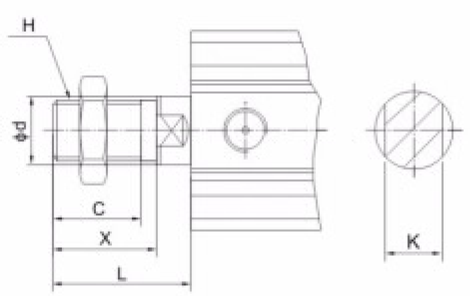
两端内螺纹安装型 HCQ2A·HCDQ2A Both ends tapped mounting type



缸径/ Bore Size	O	R
Φ32	M6	10
Φ40	M6	10
Φ50	M8	14
Φ63	M10	18
Φ80	M12	22
Φ100	M12	22

注Remark：
1.标准行程是每5mm相隔。
1.Standard stroke every 5mm alternation
2.除非有特别指明，通孔型气缸尺寸和两端内螺纹气缸尺寸是一样；
2.The thread size of through hole type and both ends tapped is theSame except special requirement.
3.(B)、(P)两尺寸为内置磁环型气缸尺寸，其余尺寸与没有磁环型气缸均相同；
3.(B)、(P)is the size of compact–cylinder with magnet, Other size is the same as compact –cylinder without magnet.
4.5mm行程内置磁环型气缸只能安装一个磁性开关。
4.It can ony mount one magnet switch if the stroke in 5mm.

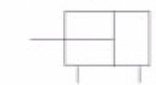
活塞杆外螺纹 /Piston rod external thread



缸径/ Bore Size	C	X	Φd	H	L	K
Φ32	20.5	23.5	Φ16	M14x1.5	28.5	14
Φ40	20.5	23.5	Φ16	M14x1.5	28.5	14
Φ50	26	28.5	Φ20	M18x1.5	33.5	18
Φ63	26	28.5	Φ20	M18x1.5	33.5	18
Φ80	32.5	35.5	Φ25	M22x1.5	43.5	22
Φ100	32.5	35.5	Φ30	M26x1.5	43.5	27

HCQ2 系列日本规格薄型气缸 / HCQ2 Series Japan Specification Compact Cylinder
HCQ2 系列/Series(Φ32 ~ Φ100)(长行程/Long Stroke)

符号/symbol



标准规格/Specifications

缸径 / Cylinder Diameter(mm)	32	40	50	63	80	100
工作介质 / Working Medium	经过滤的压缩空气/ Filtered Compressed Air					
动作型式 /Action model	双动 /Double acting					
保证耐压力 / Ensured Pressure Resistance	1.5MPa(15Kgf/cm2)					
最高使用压力 /Maximum Working Pressure	1.0MPa(10Kgf/cm2)					
环境和介质温度 / Ambient and Medium and Temperature	5～60℃					
杆端螺纹/Screw of rod end	内螺纹(标准) / Internal thread Standard, 外螺纹(任选)/ External thread					
缓冲/ Cushion	橡胶缓冲/Cushion					
行程误差/Travel Distance Error(mm)	0~1.4					
*润滑 / Lubrication	不需要 /Not Required					
安装 / Mounting type	两端内螺纹(标准)/ Both ends tapped					
接管口径/ Joint iube caliber	G1/8		G1/4		G3/8	

订购码/Ordering Code

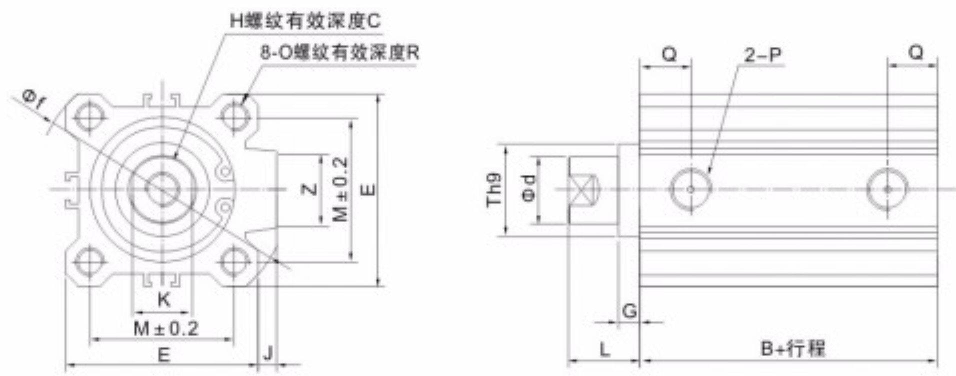
HC DQ 2 A — 32 x 125 D — CM

磁环/Magnet	安装型式/ Mounting type	缸径/cylinder bore (mm)	行程/Stroke (mm)	动作型式 /Action type	缸身/ Cylinder Body
无/Without– 标准/Standard D–内置磁环/ with magnet	A– 两端内螺纹/ both ends tapped			D– 双动/ double acting	C–橡胶缓冲(杆端内螺纹)/ Rod end internal thread CM–橡胶缓冲(杆端外螺纹)/ Rod end external thread

订货举例 / Order Exanple:

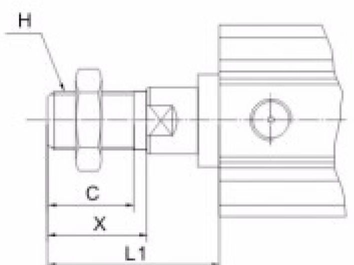
1. 所需缸Φ50mm，行程150mm，双动，杆端内螺纹。
   For order of diaΦ50mm,stroke150mm, doubleacting,rod end internal thread compact cylinder.
   正确型号/Correcttype：HCQ2A–50x150–DC
2. 所需缸Φ63Mm，行程300mm，双动内置磁环型,杆端外螺纹。
   For order of diaΦ63mm.Stroke300mm,doubleacting with magnet,both ends tapped type,rod endexternal thread.
   正确型号/Correcttype：HCQ2A–63x300–DCM

外形尺寸图/Overall Dimension Drawing (mm)



缸径/ Bore Size	行程 Stroke	B	C	Φd	E	G	H	Φf	J	K	L	M	O	P	Q	R	Th9	Z
Φ32	125,150 175,200 250,300	45.5	13	Φ16	45	5	M8	60	4.5	14	17	34	M6	G1/8	12	10	$22^{0}_{-0.052}$	18
Φ40		55	13	Φ16	52	5	M8	69	5	14	17	40	M6	G1/8	14	10	$28^{0}_{-0.052}$	18
Φ50		55.5	15	Φ20	64	5	M10	86	7	18	18	50	M8	G1/4	14	14	$35^{0}_{-0.062}$	22
Φ63		57	15	Φ20	77	5	M10	103	7	18	18	60	M10	G1/4	15	18	$35^{0}_{-0.062}$	22
Φ80		66	21	Φ25	98	5	M16	132	6	22	20	77	M12	G3/8	19	22	$43^{0}_{-0.062}$	26
Φ100		75.5	27	Φ30	117	5	M20	156	6.5	27	22	94	M12	G3/8	23	22	$59^{0}_{-0.074}$	26

杆端外螺纹/ Rod end external thread



缸径/ Bore Size	C	H	L1	X
Φ32	20.5	M14x1.5	38.5	23.5
Φ40	20.5	M14x1.5	38.5	23.5
Φ50	26	M18x1.5	43.5	28.5
Φ63	26	M18x1.5	43.5	28.5
Φ80	32.5	M22x1.5	53.5	35.5
Φ100	32.5	M22x1.5	53.5	35.5

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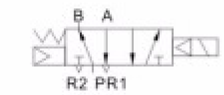
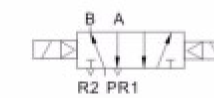
ISO9001:2015 ROHS

HVF系列先导型二位五通电磁阀 / HVF Series Lead Type Two-position Five-way Solenoid Valve HVF3000、5000系列/HVF3000、5000Series

符号/symbol



单电控：Single Electric Control



双电控：Double Electric Control

型号命名方法 /Type Denominate Method

HVF 3130 / 5120 - 3 G - 02

- 电控数 Electric control number
  - 1:单电控 Single electric control
  - 2:双电控 Double electric control
- 标准电压: Standard Voltage
  - 3:AC110V
  - 4:AC220V
  - 5:DC24V
  - 6:DC12V
- 接电方式 Plug mode
  - G: 直接出线式 Grommettype
  - D: DIN插座式 DINtype
- 接管口径 Port Size
  - 01:G1/8
  - 02:G1/4
  - 03:G3/8

订货举例 / Order Exanple:

1.需二位五通单电控阀.AC220V直接出线式，接管口径G1/4.正确型号:HVF5120-4G02
1.For order of two-position five way solenoid valve with single Electric control,voltage: 220vAC,Grommet type port size G1/4. Correct Model: HVF5120-4G02
2.需二位五通双电控阀.DC24V,DIN插座式，接管口径G3/8.正确型号:HVF5220-5D03
2.For order of two-position five way solenoid valve with double Electric control, voltage: 24vDC,DIN type port size G3/8. Correct Model: HVF5220-5D03

共同规格 /Common Specifications

工作介质/Working Medium	经过滤的压缩空气/Filtered Compressed Air
环境及介质温度/ Ambientand Medium Temperature	5-50℃
手动操作/Manual Operation	非锁定推压式/Without lock and push type
润滑/Lubrication	不需要/Not Required
抗冲击Shock Resistant/ 震动能力Vibration Ability	30G/5G(8.3-2000Hz)
密封/Sealing	防灰尘/Anti-dust

*如需要润滑，请用透平1号油 ISOVG32。
*In case lubrication is required,please use turbine No.1 oill SOVG32.

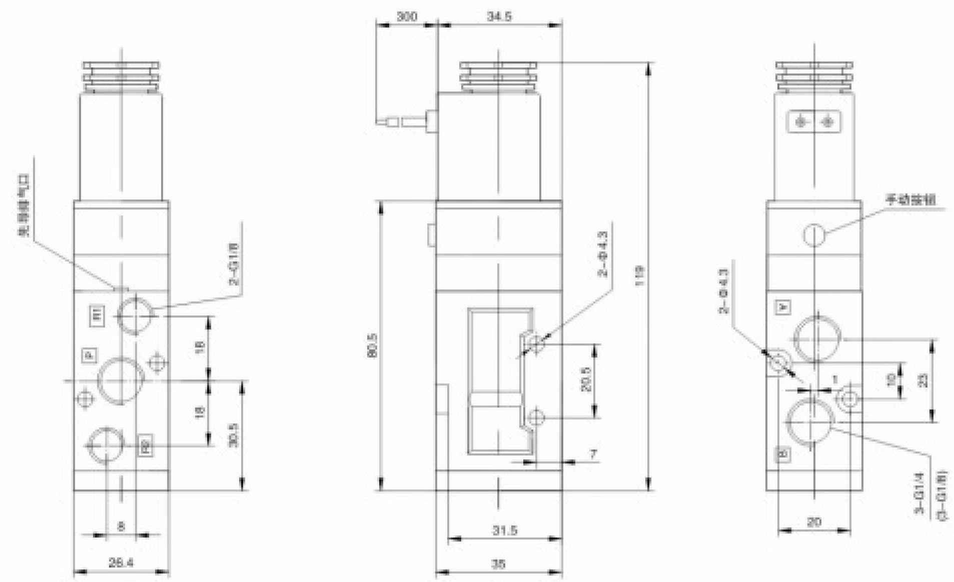
电磁线圈规格 /Solenoid Specifications

接电方式/Plug mode		直接出线式(G)/Grommet type DIN 插座式/Din type
标准电压/Standard Voltage		交流/AC:110V,220V(50Hz); 直流/DC:12V,24V
允许电压变动范围/Permissible Voltage Variance Range		额定电压/the rated voltage： -15%-+10%
绝缘/Insulation		B级或相同等级
功率消耗/Power Dissipation	交流/AC	起动/Startup：5.6VA，持续/continuous：3.4VA
	直流/DC	1.8W

型号/Model	规格/Specifications					
	电控数/Electric Control Number	工作压力 /Working Pressure	反应时间/ Response Time	最高操作频率/Max. Operation Frequency	接管口径/Joint Tube Caliber	有效截面积/Effective Section Area
HVF3130-□□-01	单电控/Single Electric Control	0.15-0.90MPa	≤0.03S	5次 times / 秒 s econd	G1/8	17.1mm²
HVF3130-□□-02					G1/4	
HVF3230-□□-01	双电控/Double Electric Control	0.1-0.90MPa	≤0.03S	5次 times / 秒 s econd	G1/8	17.1mm²
HVF3230-□□-02					G1/4	
HVF5120-□□-02	单电控/Single Electric Control	0.15-0.90MPa	≤0.03S	5次 times / 秒 s econd	G1/4	45mm²
HVF5120-□□-03					G3/8	
HVF5220-□□-02	双电控/Double Electric Control	0.1-0.90MPa	≤0.03S	5次 times / 秒 s econd	G1/4	45mm²
HVF5220-□□-03					G3/8	

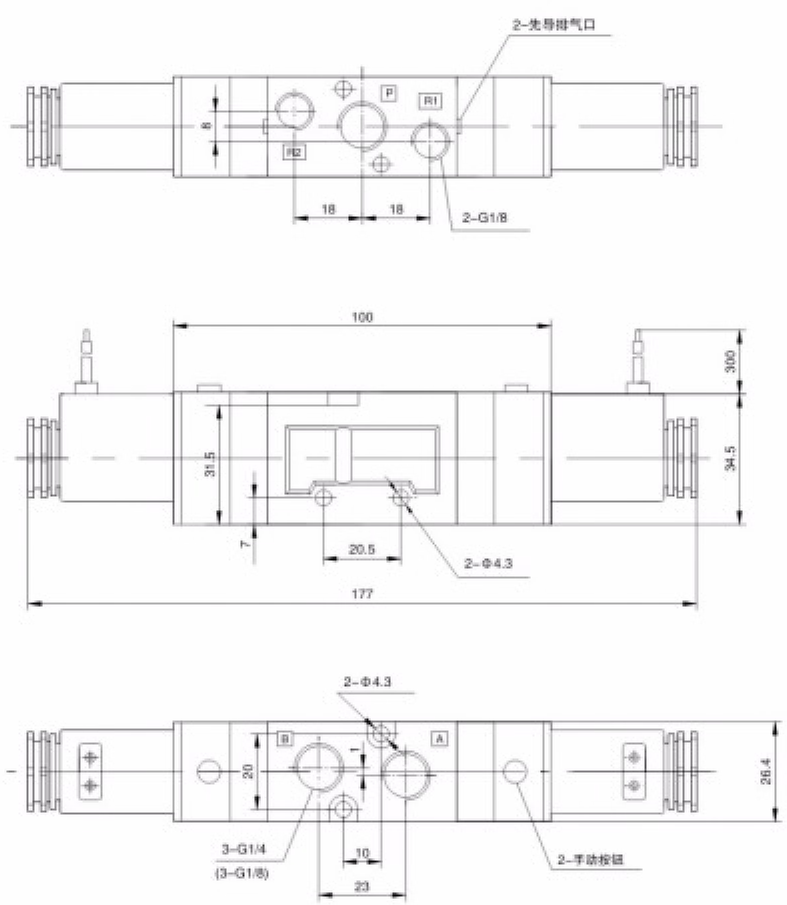
HVF3130外形尺寸图(mm)/ Overall Dimension Drawing of HVF3130（mm）

直接出线式(G)



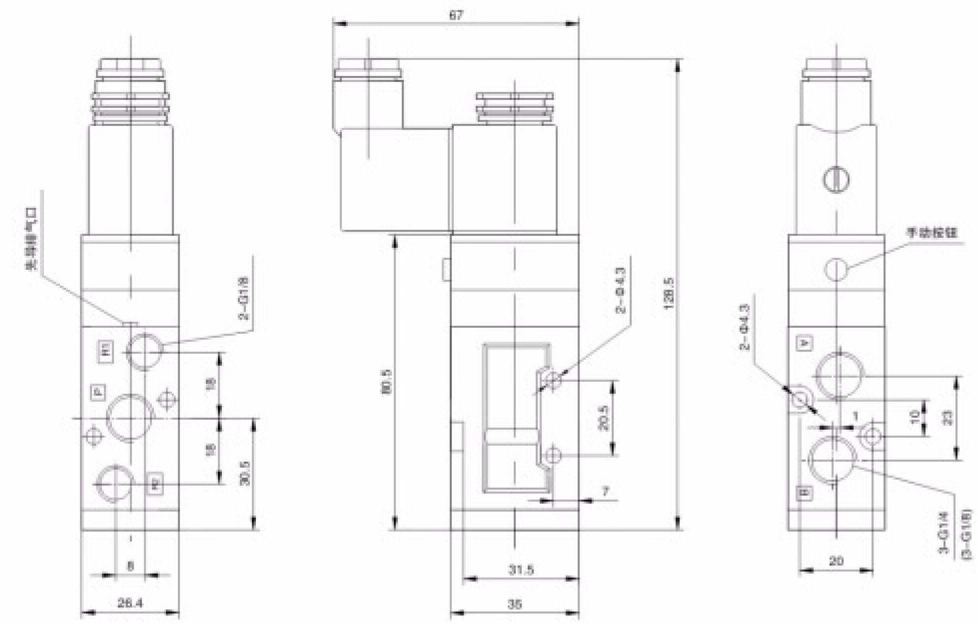
HVF3230外形尺寸图(mm)/ Overall Dimension Drawing of HVF3230（mm）

直接出线式(G)



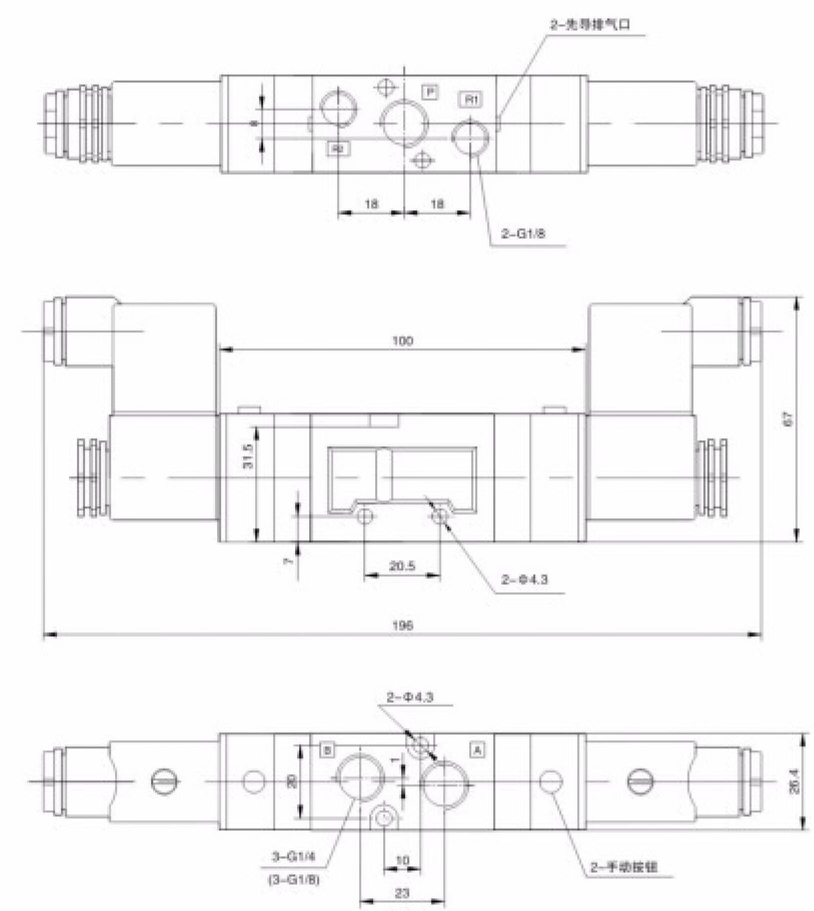
HVF3130外形尺寸图(mm)/Overall Dimension Drawing of HVF3130（mm）

插座式(D)



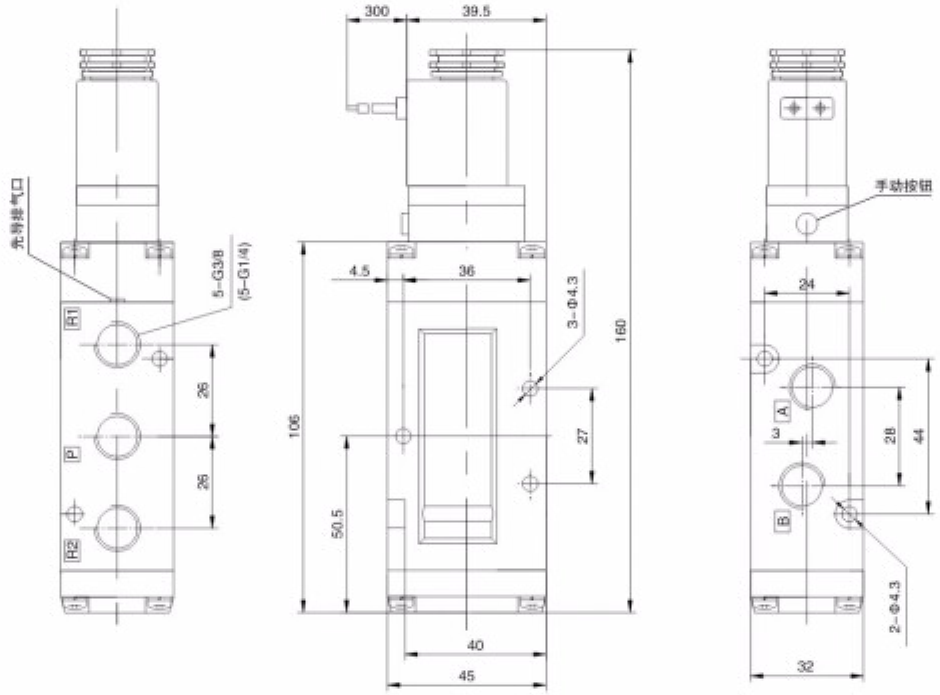
HVF3230外形尺寸图(mm)/Overall Dimension Drawing of HVF3230（mm）

插座式(D)



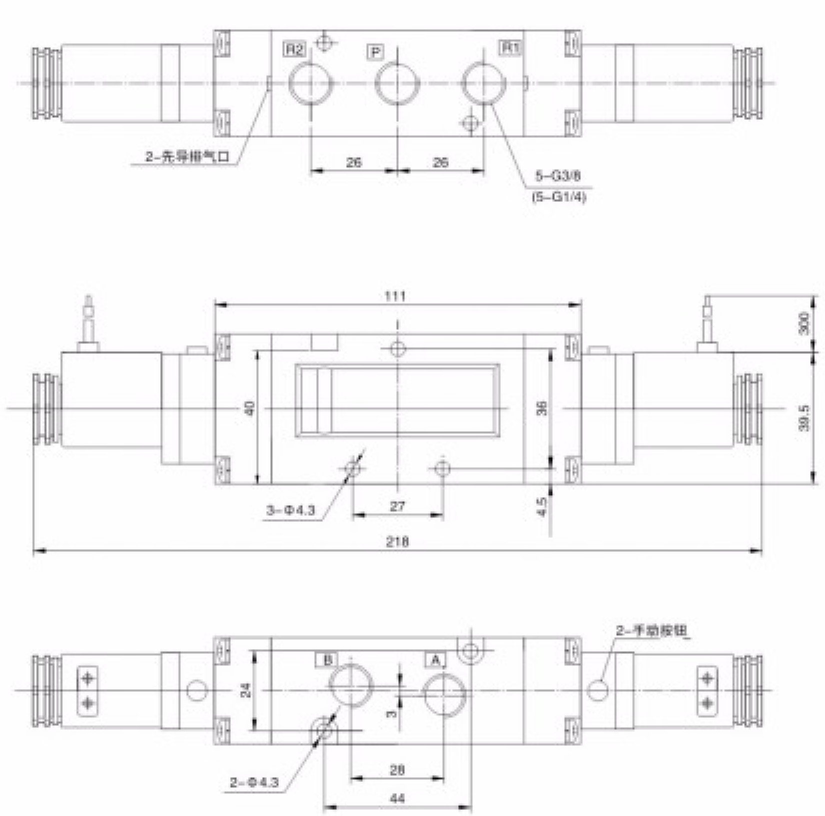
HVF5120外形尺寸图(mm)/Overall Dimension Drawing of HVF5120（mm）

直接出线式(G)



HVF5220外形尺寸图(mm)/Overall Dimension Drawing of HVF5220（mm）

直接出线式(G)



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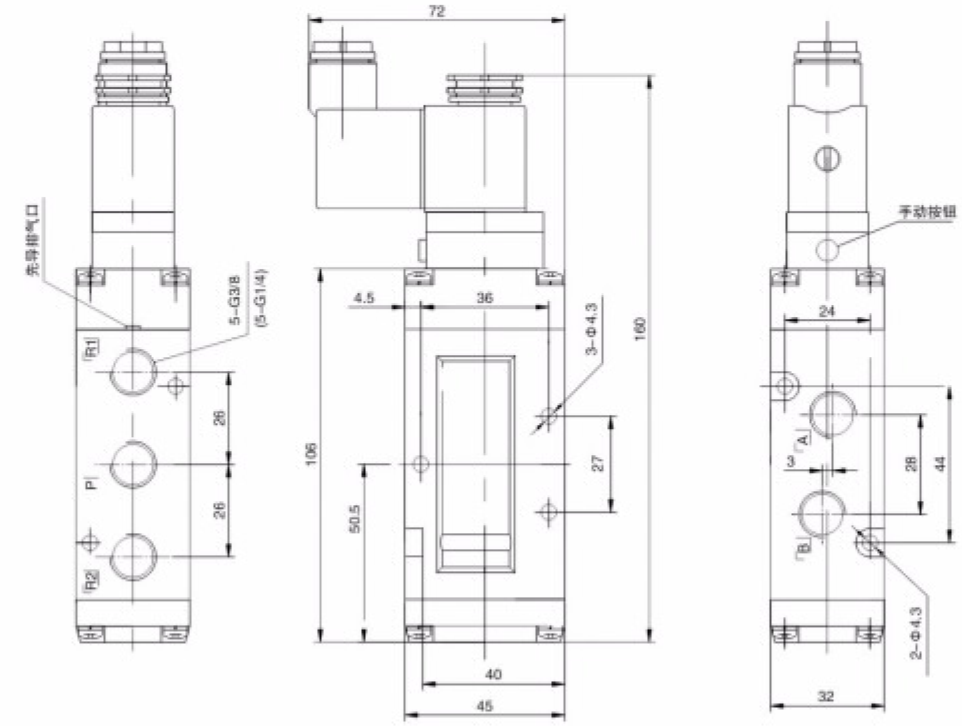
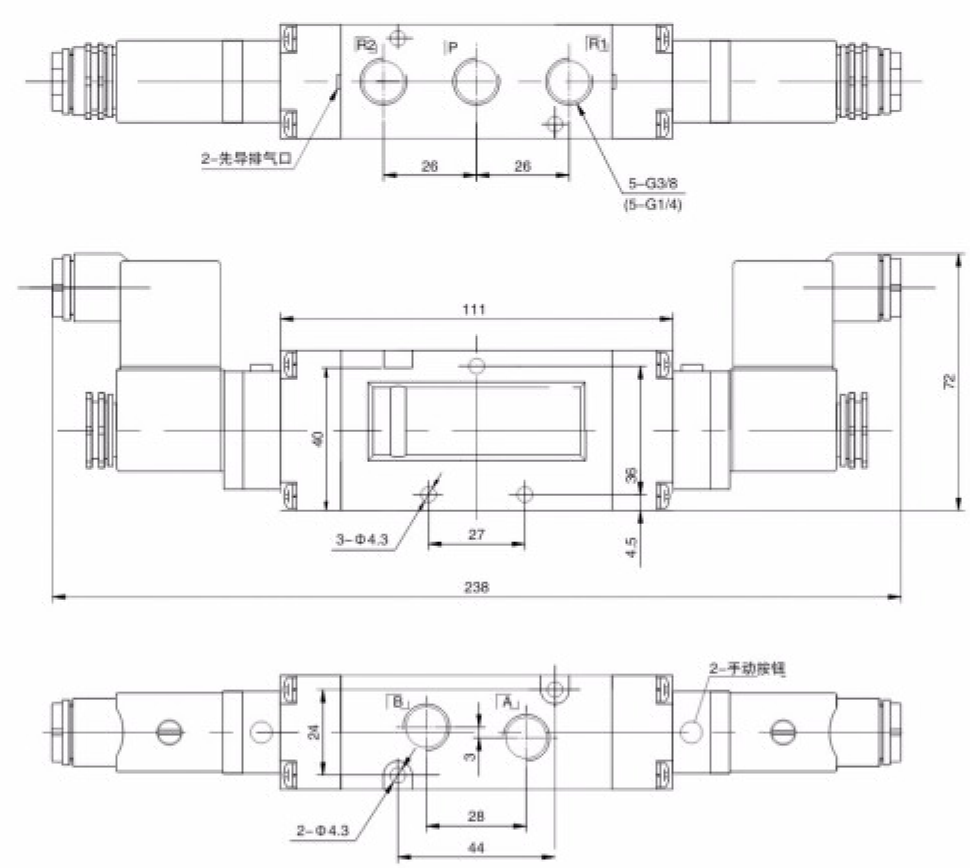
HVF5120外形尺寸图(mm)/Overall Dimension Drawing of HVF5120（mm）

插座式(G)



HVF5220外形尺寸图(mm)/Overall Dimension Drawing of HVF5220（mm）

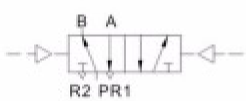
插座式(G)



HVFA系列气控阀 / HVFA Series Pneumatic Control Valve
HVFA3000、 5000系列/HVFA3000、 5000Series

符号/symbol

单空气控制：Single Air Control



双空气控制：Double Air Control

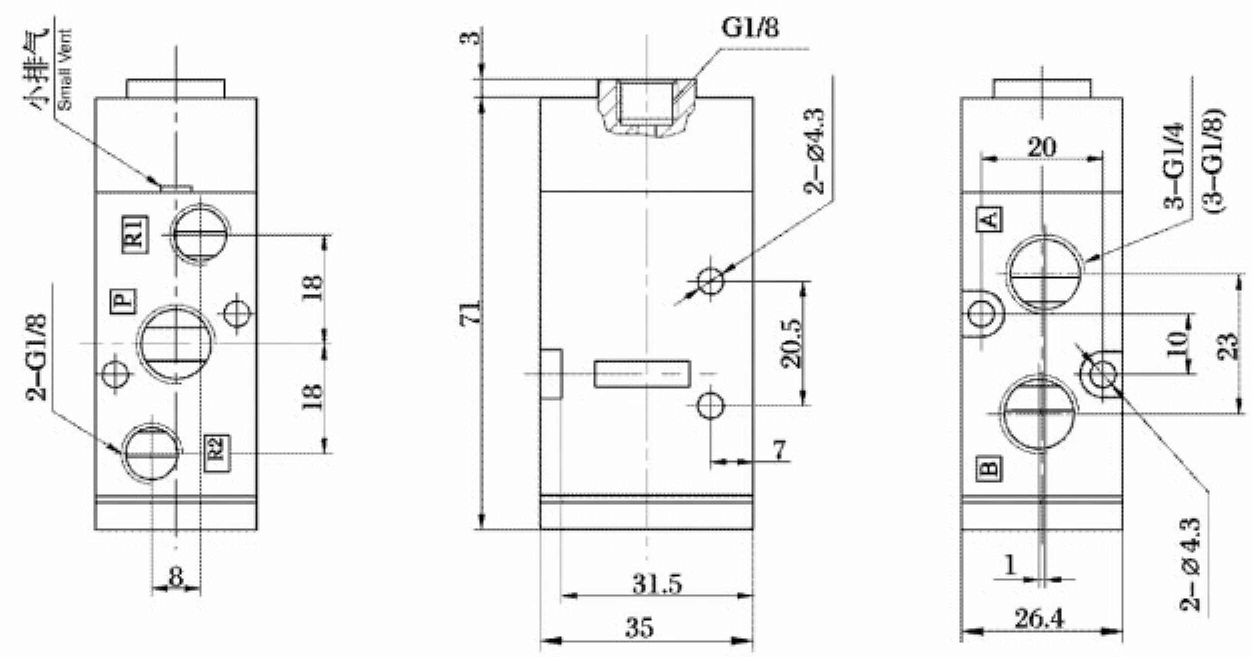
共同规格/Common Specifications:

工作介质/Working Medium	经过滤的压缩空气/Filtered Compressed Air
环境及介质温度/Ambientand Medium Temperature	5~50℃
润滑/Lubrication	不需要/Not Required
抗冲击Shock Resistant/震动能力Vibration Ability	30G/5G(8.3~2000Hz)
密封/Sealing	防灰尘/Anti–dust

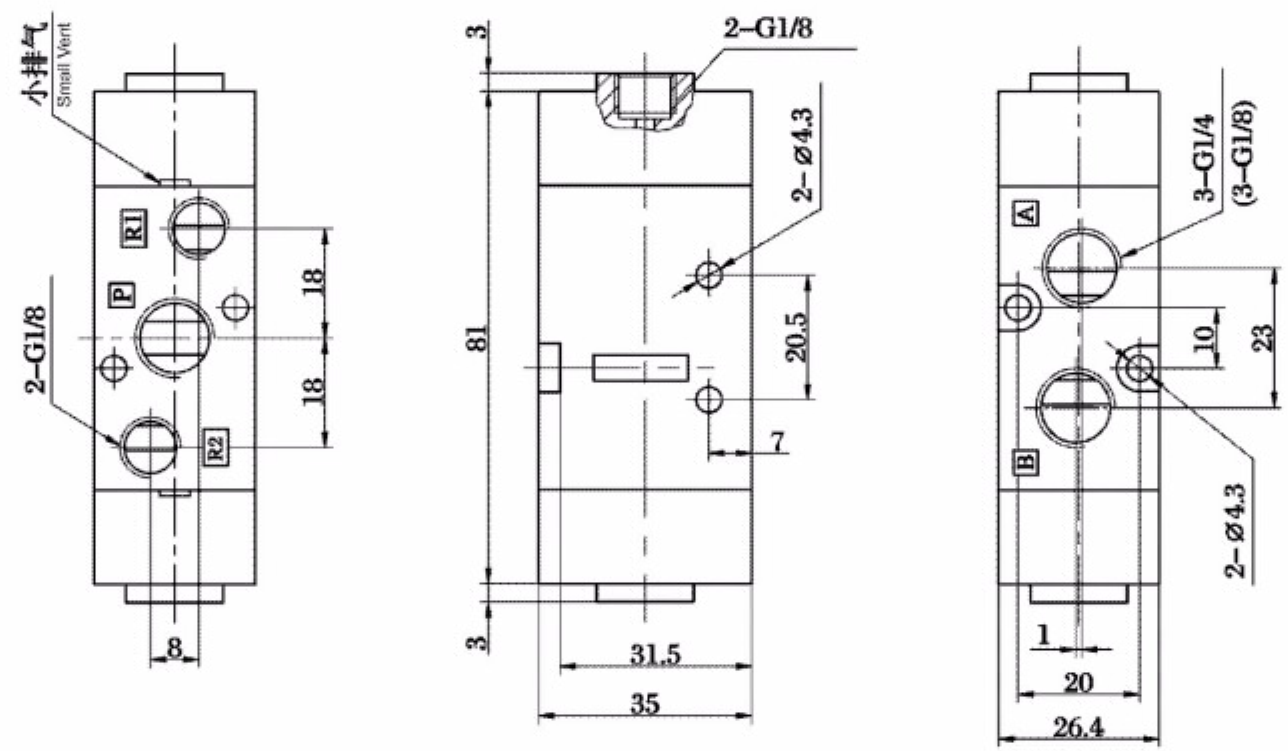
*如需要润滑，请用透平1号油 ISOVG32。/In case lubrication is required,please use turbine No.1 oill SOVG32.

型号/Model	规格/Specifications				
	气控数/Pneumatic Control Number	工作压力 /Working Pressure	气控压力/Pneumatic Control Pressure	接管口径/Joint Tube Caliber	有效截面积/Effective Section Area
HVFA3130–01	单气控/ Single Air Control	0.15~0.90MPa	(0.04P+0.1)~ 0.9MPa注：P为输入压力/Prefers to input pressure	G1/8	17.1mm²
HVFA3130–02				G1/4	
HVFA5120–02				G1/4	45mm²
HVFA5120–03				G3/8	
HVFA3230–01	双气控/ Double Air Control	0.1~0.90MPa		G1/8	17.1mm²
HVFA3230–02				G1/4	
HVFA5220–02				G1/4	45mm²
HVFA5220–03				G3/8	

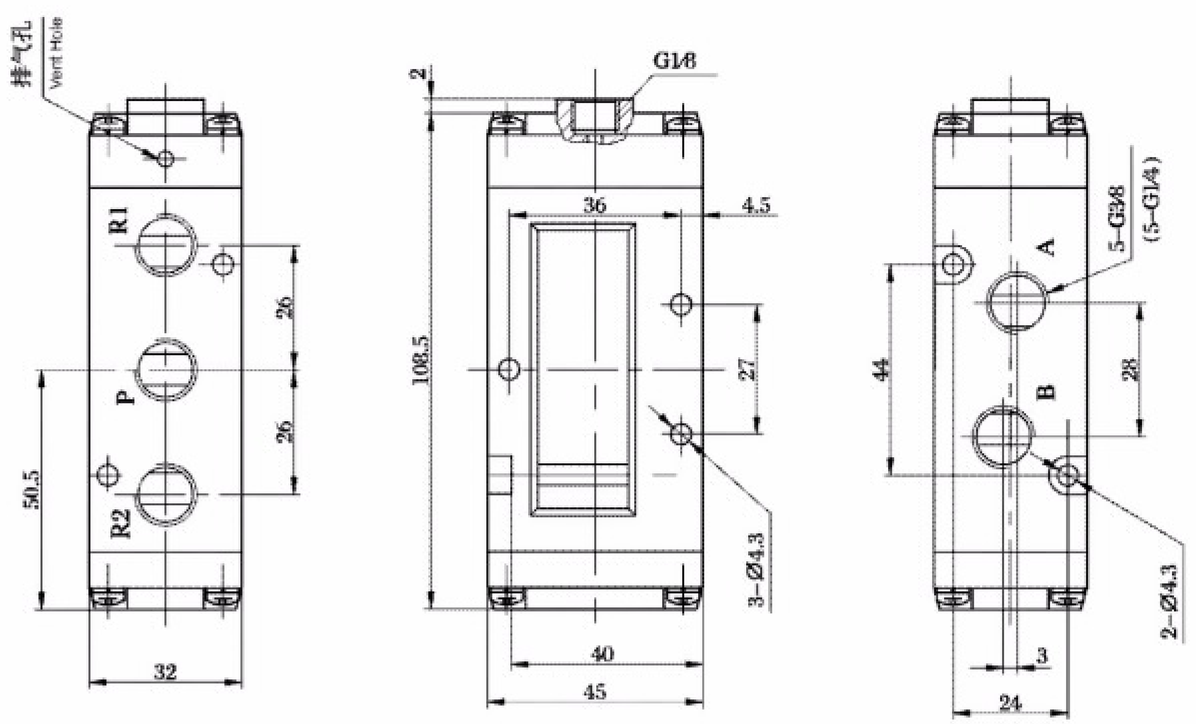
HVFA3130外形尺寸图(mm)/Overall Dimension Drawing of HVFA3130(mm)



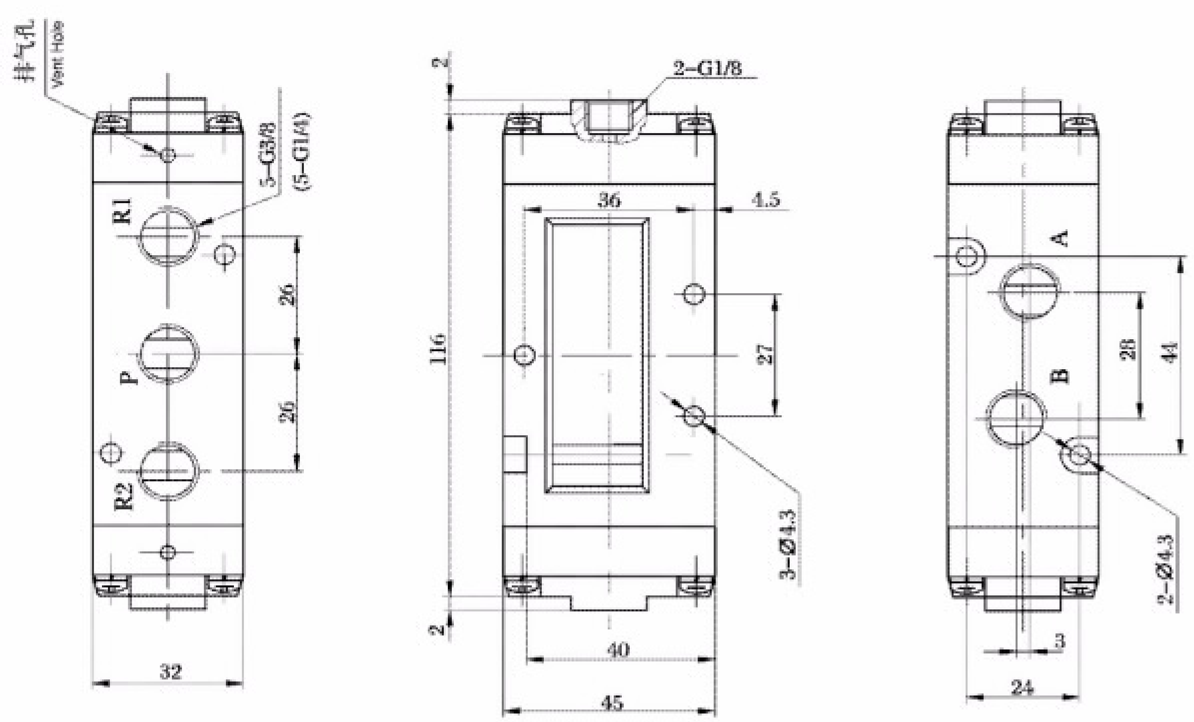
HVFA3230外形尺寸图(mm)/Overall Dimension Drawing of HVF3230(mm)



HVFA5120外形尺寸图(mm)/Overall Dimension Drawing of HVFA5120(mm)



HVFA5220外形尺寸图(mm)/Overall Dimension Drawing of HVF5220(mm)



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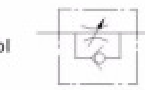
AS系列单向节流阀 / AS Series Check Valve
AS1000~4000系列/Series

符号/symbol



规格/Specifications

型号/Model	AS1000	AS2000~4000
保证耐压力 / Ensured Pressure Resistance	1.05MPa	1.5MPa
最高使用压力 /Maximum Working Pressure	0.7MPa	1.0MPa
最低使用压力/Minimum Working-pressure	0.1MPa	0.05MPa
环境和介质温度 / Ambient and Medium and Temperature	5~60℃	
调整流量转数/Regulated Flow Turnsq	10	*8~9

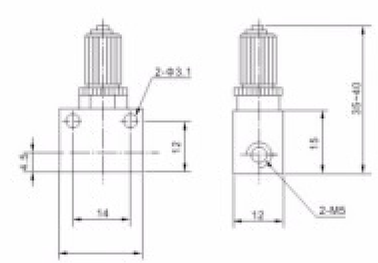
注*：AS2000为9转，AS3000、AS4000为8转。Note.: *9 turns for AS2000, 8 turns for AS3000 and AS4000.

型号 /Model	口径/ Port Size	自由流量/Free Flow		控制流量/Controlled Flow		重量 Weight g
		*流量/FlowL/min	有效截面积/ Effec-tive Sectional Area mm²	*流量/FlowL/min	有效截面积/ Effec-tive Sectional Area mm²	
AS1000-M5	M5	90	1.4	80	1.2	33
AS2000-01	G1/8	340	5.2	250	3.8	90
AS2000-02	G1/4					115
AS3000-02	G1/4	810	12.3	810	12.3	130
AS3000-03	G3/8					
AS4000-02	G1/4	1670	25.5	1670	25.5	205
AS4000-03	G3/8					
AS4000-04	G1/2					

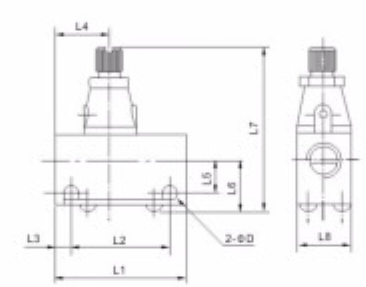
注*：输入压力为0.5MPa。/ Note: Input pressure is 0.5MPa.

外形尺寸图/Overall Dimension Drawing (mm)

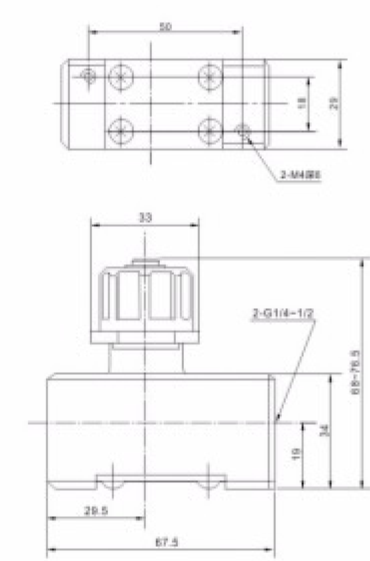
AS1000-M5



AS2000~3000



AS4000



型号/Model	口径/Port Size	L1	L2	L3	L4	L5	L6	L7	L8	D
ASC2000-01	G1/8	40	30	5	17	10	15.5	50~54.5	16	4.5
ASC2000-02	G1/4	40	30	5	23	11.5	17	51.5~56	20	4.5
ASC3000-02	G1/4	56	45.5	5.25	25	13.2	21	62~69	26	5.5
ASC3000-03	G3/8	56	45.5	5.25	25	13.2	21	62~69	26	5.5

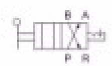
HVH系列4通手转阀 / HVH Series Four-way Hand Valve
HVH200~400系列/Series



符号/symbol


3位(中央封闭)
Three-position
(Center Closed)


3位(中央排气)
Three-position
(Center Opened)


2位
Two-position

特点/Features:

本产品有三种安装形式可供用户选择。

This series products can be mounted by three different types.

注意事项/Note:

本产品的阀芯与阀体转动部位的密封形式为间隙密封，对压缩空气中灰尘、杂质等很敏感，使用时必须安装过滤精度为5um的空气过滤器，或空气过滤减压阀。

The valve core and the body of this series products' are clearance seal when it is being turned, they are very sensitive to the dust, and impurity. So it must be used together with air filter or filter regulator with 5 micron filtration.

共同规格/Common Specifications:

工作介质/Working Medium	经过滤的压缩空气/Filtered Compressed Air
保证耐压力/Ensured Pressure Resistance	1.5MPa(10kgf/cm²)
最高使用压力/Maximum Working-pressure	1.0MPa(10kgf/cm²)
环境和介质温度/Ambient and Medium Temperature	5~60℃
润滑/Lubrication	不需要/Not Required
操作角度/Operation Angle	90°

*如需要润滑，请用透平1号油 ISOVG32。/In case lubrication is required,please use turbine No.1 oill SOVG32.

型号/Model	规格/Specifications		
	位置数 / Place Nimber(L/min)	接管口径/Joint Tube Caliber	有效截面积/Effective Section Area
HVH200-02	3位(中央封闭)/Three-position(Center closed)	G1/4	7.5
HVH201-02	3位(中央排气)/Three-position(Center opened)		
HVH202-02	2位/Two-position		
HVH300-03	3位(中央封闭)/Three-position(Center closed)	G3/8	20
HVH301-03	3位(中央排气)/Three-position(Center opened)		
HVH302-03	2位/Two-position		
HVH400-04	3位(中央封闭)/Three-position(Center closed)	G1/2	55
HVH401-04	3位(中央排气)/Three-position(Center opened)		
HVH402-04	2位/Two-position		
HVH400-06	3位(中央封闭)/Three-position(Center closed)	G3/4	
HVH401-06	3位(中央排气)/Three-position(Center opened)		
HVH402-06	2位/Two-position		

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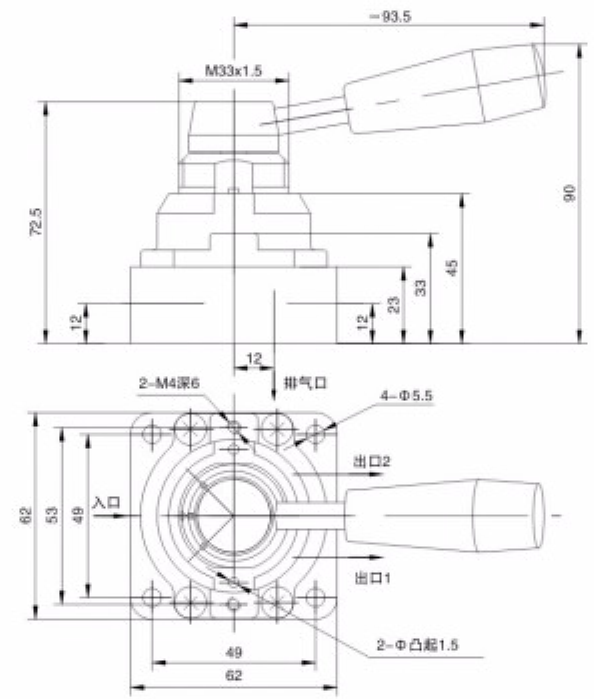
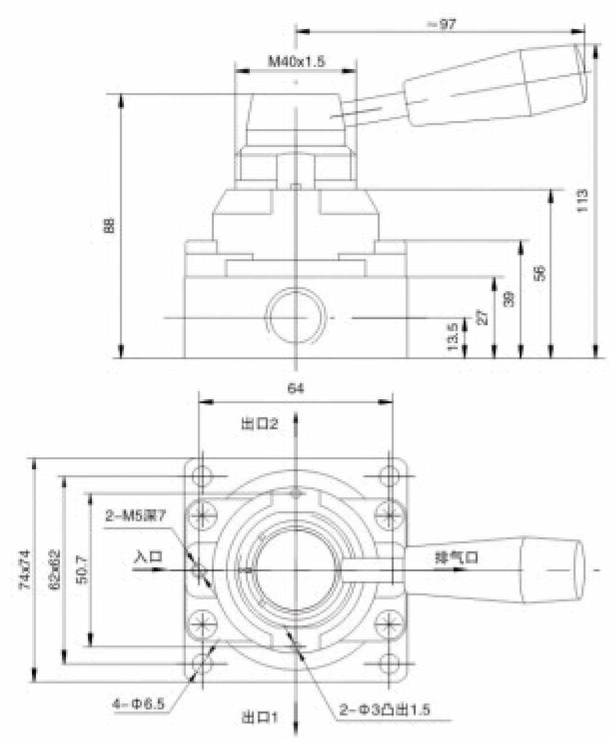
4通手转阀外形尺寸图/Overall Dimension Drawing of Four-way hand-switching valve

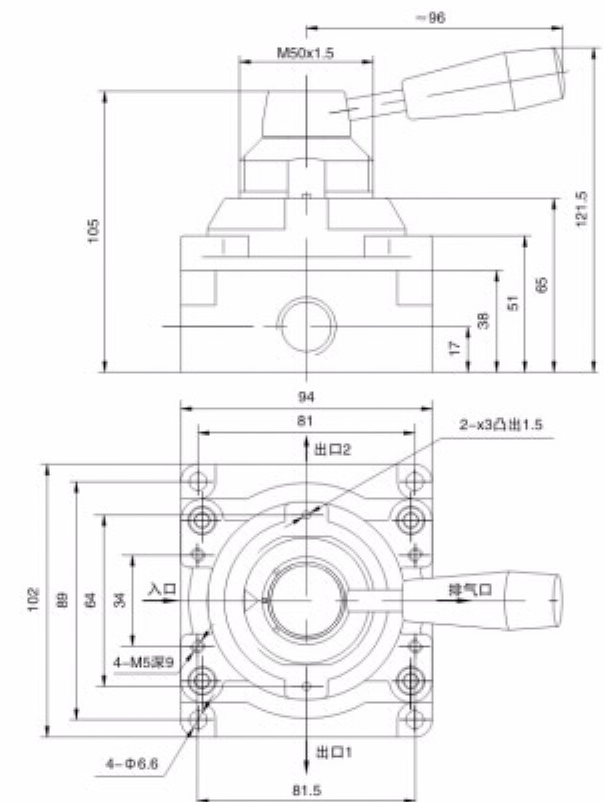
HVH200.201.202



HVH300.301.302



HVH400.401.402



MVFA系列脚踏阀/MVFA Series Foot Valve
MVFA 230~240系列/Series

订购码/Ordering Code

MVFA — 230 8A — L

230:二位三通常闭型
Two-Position Three-Way NC
231:二位三通常开型
Two-Position Three-Way NO
240:二位四通
Two-Position Four-Way

8A:Rc1/4

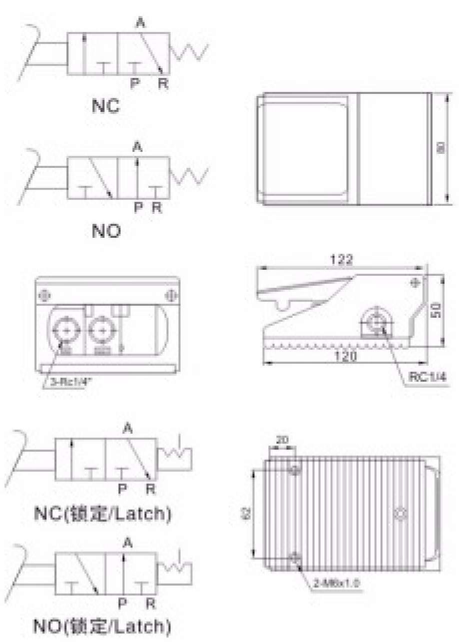
L:锁定机构
/Latch

规格 /Specification

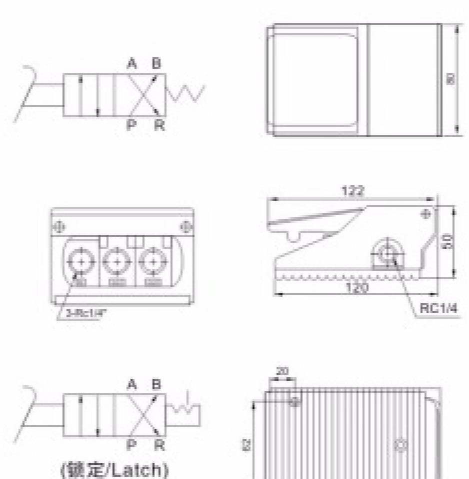
型号/Model	MVFA-230	MVFA-231	MVFA-240
接管口径代号/Port Code	8A		
*接管口径/Port Size	Rc1/4		
气口数/Port	3		4
位置数/Position	2		
工作介质/Working Medium	经过滤的压缩空气Filtered Compressed Air		
介质温度与环境温度/Mediumand Ambient Temperature	5~60℃		
保证耐压力/Ensured Pressure Resistance	1.0MPa(10Kgf/cm²)		
工作压力/Working Pressure	0.2~0.7MPa(2~7Kgf/cm²)		
有效截面积/Effective Sectional Area	8mm²		

*接管口径还有G、NPT供选择。PortsizeG、NPT available in addition.

MVFA-230-8A-(L)
MVFA-231-8A-(L)



MVFA-240-8A-(L)



HAQ系列快速排气阀 / HAQ Series Quick Exhaust Valve
HAQ2000~5000系列/series


HAQ2000


HAQ3000


HAQ5000

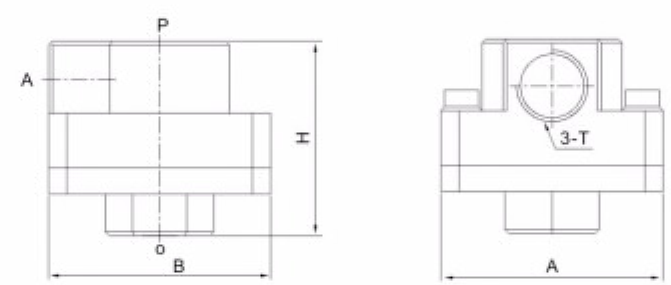
规格 /Specification

流体/Fluid		空气/Air
保证耐压力/Ensured Pressure Resistance		15.3kgf/cm²(1.5MPa)
最高使用压力/Highest Working Pressure	HAQ2000-5000	10.2kgf/cm²(1.0MPa)
最低使用压力/Minimal Working Pressure	HAQ2000-5000	0.51kgf/cm²(0.05MPa)
环境及流体温度/Ambientand Fluid Temperature		5~60℃

型号/ Model

型号/Model	口径/Bore	有效断面积Effective Section Area(mm²)		重量(gf)
		入/IN → 出/OUT	出/OUT → 排气/EXHAUST	
HAQ2000-01	1/8	25	25	110
HAQ2000-02	1/4	35	40	105
HAQ3000-02	1/4	40	42	215
HAQ3000-03	3/8	60	70	205
HAQ5000-04	1/2	105	115	690
HAQ5000-06	3/4	135	180	650

外形尺寸图/Overall Dimension Drawing (mm)



型号/Model	口径/Bore	A	B	H
HAQ2000-01	1/8	45	45	40
HAQ2000-02	1/4	45	45	40
HAQ3000-02	1/4	56	56	50
HAQ3000-03	3/8	56	56	50
HAQ5000-04	1/2	85	85	75
HAQ5000-06	3/4	85	85	75

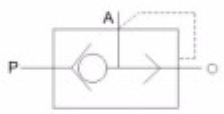
HXQ 系列快速排气阀 / HXQ Series Quick Exhaust Valve
HXQ0600~1500系列/series

HXQ0600

HXQ1000

HXQ1500

符号/symbol

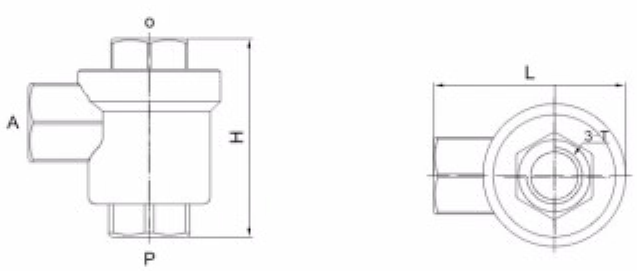


P-接换向阀输出 connect reversing valve
A-接气缸 connect cylinder
O-接消声器 connect silencer

规格 /Specification

型号/Model	接口螺纹/PortSize	通径(Mn)/Norminal diameter	流量 Flow(m³/min)	耐久/Durability (万次/Million times)	工作压力范围/Working Pressure	换向时间(S)/Reversing time
HXQ0600	G1/4	6	≥6	≥200	0.12~1.0	≤0.03
HXQ1000	G3/8	8	≥8			≤0.04
HXQ1500	G1/2	15	≥15			≤0.05

外形尺寸图/Overall Dimension Drawing (mm)

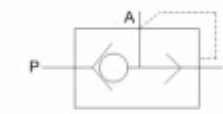


规格 /Specification

型号/Model	T	H	L
HXQ0600	G1/4	51	44
HXQ1000	G3/8	62	61
HXQ1500	G1/2	78	75

HKP系列快速排气阀/HKP Series Quick Exhaust Valve
HKP20~25系列/series

符号/symbol



型号命名方法 / Type denominate method

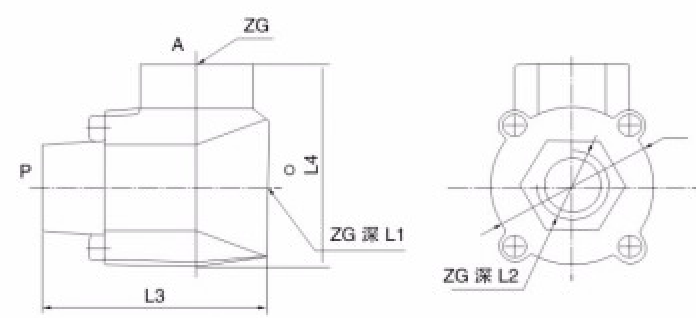
HKP — L □

快速排气阀 Quick Exhaust valve
公称通径 Inside Norminal diameter
螺纹连接 Thread connection

技术参数/Technical Parameters

公称通径/Inside Norminal diameter		20	25
工作介质/Working Medium		干燥，洁净含有油雾的压缩空气/Dried, clean compressed air	
工作压力范围/Working Pressure Area		1.2~8(bar)	
使用温度范围/Operaing Temperature Range		-20~+50(但不在冻结条件下/Not frozen)(℃)	
有效截面积/ Effective Section Area(mm²)	P→A	110	190
	A→0	190	300
换向时间/Reversing time(S)	P→A	≤0.06	
	A→0	≤0.05	

外形尺寸/Overall Dimension



型号/Model	ZG	L1	L2	L3	L4	D
HKP-L20	G3/4"	23	23	112	100	Φ74
HKP-L25	G1"	25	25	112	100	Φ74

H2W(UW)系列电磁阀(大口径) / H2W(UW) Series Solenoid Valve(Large Aperture)
H2W160~500系列/Series

符号/symbol

订购代号/Ordering Code

H2W 160 – 03 T – AC110V – V

规格代号
Specification Code:
H2W:二位二通电磁阀(直动式)
H2S:不锈钢二位二通电磁阀(直动式)
H2W:two position two way solenoid valve(Drect drive type)
H2S:stainless steel two position two Way solenoid valve(direct drive type)

流量孔径
Specification Code:
160:16mm
200:20mm
250:25mm
400:40mm
500:50mm

接管口径
Joint Pipe Bore
03: Rc3/8
04: Rc1/2
06: Rc3/4
10: Rc1
14: Rc1 1/2
20: Rc2

初始状态
Initial estate:
空白:常闭型
T:常开型
Blank: Normal Close
T: Normal Open

标准电压
Standard Voltage
DC12V
DC24V
AC24V 50/60Hz
AC36V 50/60Hz
AC110V 50/60Hz
AC220V 50/60Hz
AC380V 50/60Hz

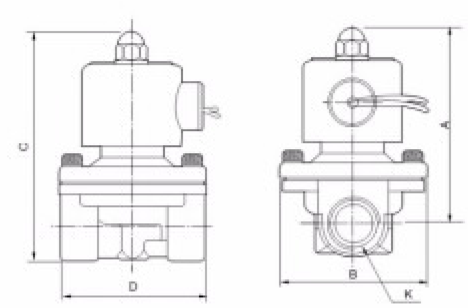
油封代号
空白:NBR
V:VITON
(高温用)
Oil Seal Code:
Blank:NBR
V:VITON
(For High-temperature)

技术参数/Technical Parameters:

型号Model	H2W160-03	H2W160-04	H2W200-06	H2W250-10	H2W400-14	H2W500-20
	H2S160-03	H2S160-04	H2S200-06	H2S250-10	H2S400-14	H2S500-20
使用介质/Working Medium	空气、水、油、瓦斯/Air、Water、Oil、Gas					
动作方式/Motion Pattem	直动式/Direct Drive					
型式/Type	常闭型/Normal Close Type常开型/Normal Open Type					
流量孔径/Apertureof Flow Ratea	16mm	16mm	20mm	25mm	40mm	50mm
Cv值/Cv Value	4.8	4.8	7.6	12	29	48
接管口径/Joint Pipe Bore	Rc3/8	Rc1/2	Rc3/4	Rc1	Rc1$^1/_2$	Rc2
使用流体粘滞度/Oper ation Fluid Viscosity	20CST以下(below)					
使用压力/Working-Pressure	水/Water:0~5kgf/cm^2,空气/Air:0~7kgf/cm^2,油/Oil:0~5kgf/cm^2，瓦斯/Gas:0~7kgf/cm^2					
最大耐压力/Max.Pressure Resistan	10.5kgf/cm^2					
工作温度范围/Operating Temperature Range	-5~80℃					
使用电压范围/Voltagte Range	± 10%					
本体材质/Material of Body	H2W：黄铜/Brass H2S:不锈钢/Stainlesssteel					
油封材质/Material of Oil Seal	NBR,EPDM或VITON					

*特殊电压及规格请与厂方接洽/Please contact Factory for special voltage and Specifcation
*接管口径还有G、NPT供选择。/Port Size G、NPT available in addition

外形尺寸/Overall Dimension



型号/Model	K	A	B	C	D
H2W160-03	Rc3/8	101.5	57	117	69
H2W160-04	Rc1/2	101.5	57	117	69
H2W200-06	Rc3/4	107	57	123.5	73
H2W250-10	Rc1	111.5	73.5	134.5	99
H2W400-14	Rc1 1/2	142	95	172	123
H2W500-20	Rc2	172	123	209	168

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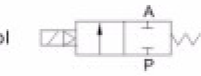
H2L(US)系列电磁阀(蒸汽型)/H2L(US) Series Solenoid Valve(Steam Type)
H2L170~500系列/Series

符号/symbol



订购代号/Ordering Code

H2L 170 – 03 – AC110V

规格代号
H2L:蒸汽型二位二通电磁阀
Specification Code:
H2L: Steam Type two position two Way solenoid valve

流量孔径
Specification Code:
170:17mm
200:22mm
300:25mm
500:50mm

接管口径
Joint Pipe Bore
03: Rc3/8
04: Rc1/2
06: Rc3/4
10: Rc1
14: Rc1 1/2
20: Rc2

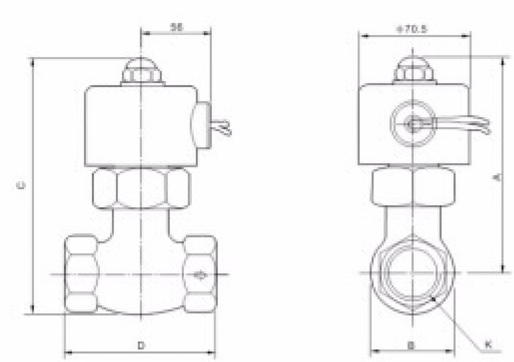
标准电压
Standard Voltage
DC12V
DC24V
AC24V 50/60Hz
AC36V 50/60Hz
AC110V 50/60Hz
AC220V 50/60Hz
AC380V 50/60Hz

技术参数/Technical Parameters:

型号Model	H2L170-03	H2L170-04	H2L170-06	H2L200-10	H2L300-14	H2L500-20
使用介质/Working Medium	空气、水、蒸汽/Air、Water、Steam					
动作方式/Motion Pattem	先导式/Guild Drive					
型式/Type	常闭型/Normal Close Type					
流量孔径/Apertureof Flow Ratea	17mm			22mm	30mm	50mm
Cv值/Cv Value	4.8			12	20	48
接管口径/Joint Pipe Bore	Rc3/8	Rc1/2	Rc3/4	Rc1	Rc1$^1/_2$	Rc2
使用流体粘滞度/Oper ation Fluid Viscosity	20CST以下(below)					
使用压力/Working-Pressure	1~15kgf/cm^2					
最大耐压力/Max.Pressure Resistan	22.5kgf/cm^2					
工作温度范围/Operating Temperature Range	-5~80℃					
使用电压范围/Voltagte Range	± 10%					
本体材质/Material of Body	黄铜/Brass					
油封材质/Material of Oil Seal	聚四氟乙烯(PTFE)					

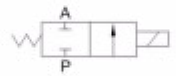
*特殊电压及规格请与厂方接洽/Please contact Factory for special voltage and Specifcation
*接管口径还有G、NPT供选择。/Port Size G、NPT available in addition

外形尺寸/Overall Dimension



型号/Model	K	A	B	C	D
HPL170-03	Rc3/8	125	42	146	82
HPL170-04	Rc1/2	125	42	146	82
HPL170-06	Rc3/4	125	42	146	82
HPL200-10	Rc1	136	52	162	90.5
HPL300-14	Rc1 1/2	148	74	183	111
HPL500-20	Rc2	176	94.5	223	163

HPU系列电磁阀 / HPU Series Solenoid Valve
HPU220系列/series

符号/symbol 

订购代号/Ordering Code

HPU 220 – 01 AC110 – E

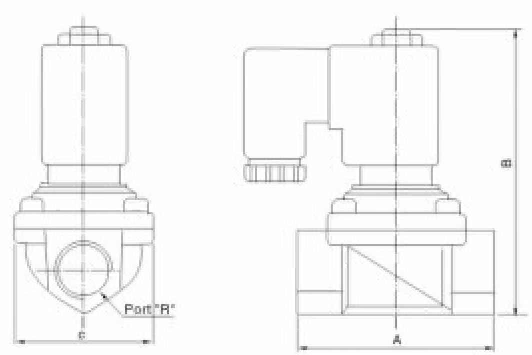
- HPU — 规格代号: HPU:二位二通电磁阀 Specification Code: H2W: two position two way solenoid valve
- 220 — 动作方式: 220:直动式 225:先导式 MotionPatten 220:Pattern 225:GuildType
- 01 — 接管口径: Joint Pipe Bore
- AC110 — 标准电压: Standard Voltage
- E — 油封代号: Oil Seal Code

技术参数/Technical Parameters:

型号Model	HPU220-01	HPU220-02	HPU220-03	HPU220-04	HPU220-06	HPU220-10
使用介质/Working Medium	空气、水、油/Air、Water、Oil					
动作方式/Motion Pattem	220:直动式/DirectDrive 225:先导式GuildType					
型式/Type	常闭型/Normal Close Type					
流量孔径/Apertureof Flow Ratea	15mm	23mm	8.0mm	13mm	20mm	25mm
Cv值/Cv Value	0.1	0.18	1.00	4.00	8.60	11.00
接管口径/Joint Pipe Bore	Rc3/8	Rc1/2	Rc3/4	Rc1	Rc1$^1/_2$	Rc2
使用流体粘滞度/Oper ation Fluid Viscosity	50CST					
使用压力/Working-Pressure	0~7kgf/cm^2					
最大耐压力/Max.Pressure Resistan	10.5kgf/cm^2					
工作温度范围/Operating Temperature Range	-5~80℃					

*特殊电压及规格请与厂方接洽/Please contact Factory for special voltage and Specifcation
*接管口径还有G、NPT供选择。/Port Size G、NPT available in addition

外形尺寸/Overall Dimension



型号/Model	口径/Bore	A	B	C
HPU220-01	Rc1/8	22	72	22
HPU220-02	Rc1/4	35	75.5	25.4
HPU220-03	Rc3/8	55	79.5	30
HPU220-04	Rc1/2	66.5	101	48
HPU220-06	Rc3/4	71	107	48
HPU220-10	Rc1	96	120	70

单位换算表/技术资料(美制及英制单位换算成单位)

质量单位		
1 lb	=453.6	g
1 tonne	=1000	kg
1 ton(imp)	=1016	kg
1 ton(us)	=907.2	kg

长度单位		
1 in	=25.4	mm
1 ft	=0.3048	m
1 micron	=10^{-3}	mm

温度单位	
(°F-32)x5/9	=℃
K-273.15	=℃

力矩单位		
1 kgm	=9.807	Nm
1 ft poundal	=0.0421	Nm
1 in lb	=0.113	Nm
1 ft lb	=1.356	Nm

功及能量单位		
1 Nm	=1	J
1 kgm	=9.807	J
1 kw/hr	=3.6	MJ
1 lbft	=1.356	J

面积单位		
1 in^2	=6.45	cm^2
1 ft^2	=0.093	m^2

压力单位		
1 psi	=6.89	Kpa
1 kgf/cm^2	=98.07	kpa
1 bar	=100	kpa
1 bar	=14.5	psi
1 mm mercury	=133.3	pa
1 in mercury	=3.39	kpa
1 Torr	=133.3	pa
1 ft water	=0.0298	bar
1 bar	=33.33	ft water
1 atmosphere (standard)	=101.3	kpa
1 cm water	=97.89	pa
1in water	=248.64	pa

功率单位(功/时间)		
1 Nm/sec	=1	w
1 lbft/sec	=1.356	w
1 kgm/sec	=9.807	w
1 Joule/sec	=1	w
1 H.P(imp)	=745.7	w

体积单位		
1 litre	=0.001	m^3
1 cu.ft.	=0.0283	m^3
1 cu.in.	=16.39	cm^3
1 fuid oz.(imp)	=28.41	mL
1 fuid oz.(us)	=29.57	mL
1 gal(imp)	=4.546	L
1 gal(us)	=3.79	L

力单位		
1 kgf	=9.81	N
1 lbf	=4.45	N
1 kp(kilopound)	=9.81	N
1 poundal	=138.3	mN
1 ton force	=9.964	kM

流量	
Cv 值	=水流量(US gal/min)於60℃下，流经差压力1psi之阀门而所得出之流量定值。
Kv值	=水流量(L/min)于20℃下，流经差压力1kgf/cm^{2}之阀门而所得出之流量定值。
So	=有效截面积(mm^2)
Q	=流量(Nl/min)
S.T.P.	=标准温度及压力(0℃及101.3kpa绝对压力)
M.S.C.	=公制标准情况(15℃及101.3kpa绝对压力)
ANR	=温度:20℃及相对湿度:65%
N.T.P.	=正常温度及压力(20℃及101.3kpa绝对压力)

换算表

1psi = 6.895 kpa = 0.07kg/cm^2 = 0.06895 bar = 0.0703 atm
1 standard atmosphere = 14.7 psi = 101.3kpa = 1.01325 bar
1 kg/cm^2 = 98.07 kpa = 14.22 psi = 28.96 ins mercury
1m^3 = 10^{6}cm^3
1ft lb = 0.13826 kgm = 1.356Nm
1 L = 1000 cm^3 = 1.7598 pint = 10^{6}mm^3
1 tonne = 1000 kg =0.984 ton = 2204.6 lb
1 cu ft/min =28.3 l/min
1 pa = 1N/m^2

流量计算公式

Q =Cv值×984
=Kv值×1100
Cv =So÷18

接口螺纹代号:

Rc— 内圆锥管螺纹(PT内螺纹)　G — 内、外圆柱管螺纹(BSPP内、外螺纹)
R — 外圆锥管螺纹(PT内螺纹)

气缸理论输出力表(N)/Cylinder theory table output force

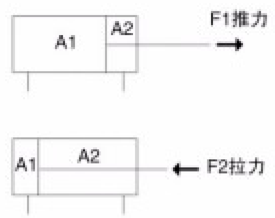
气缸理论输出力F(N)

推力:

$$F1=\frac{\pi D^2P}{4}$$

拉力:

$$F2=\frac{\pi(D^2-d^2)P}{4}$$



F=气缸理论输出力(N)
F1=气缸推力(N)
F2=气缸拉力(N)
P=空气压力(MPa)
D=气缸缸径(mm)
d=活塞杆直径(mm)
A=受压面积(mm^2)
A1=气缸推出时受力面积(mm^2)
A2=气缸缩回时受力面积(mm^2)

缸径 D(mm)	活塞杆直径 d(mm)	输出力 F(N)	受压面积 (mm^2)	工作压力(MPa)						
				0.2	0.3	0.4	0.5	0.6	0.7	0.8
6	3	F1	28	5.6	8.4	11.2	14	16.8	19.6	22.4
		F2	21	4.2	6.3	8.1	10.5	12.6	14.7	16.8
		F1	79	15.5	23.7	31.6	39.5	47.4	55.3	63.2
		F2	66	13.2	19.8	26.4	33	39.6	46.2	52.8
12	6	F1	113	22.6	33.9	43.2	56.5	67.8	79.1	90.4
		F2	85	17.0	25.5	34.0	42.5	51.0	59.5	68.0
16	6	F1	201	40.2	60.3	80.4	100.5	120.6	140.7	160.8
		F2	172	34.4	51.6	68.8	86	103.2	120.4	137.6
20	8	F1	314	62.8	94.2	125.7	157.1	188.5	220.0	251.0
		F2	264	52.8	79.2	105.6	132.0	158.4	184.8	211.2
25	10	F1	491	98.2	147.3	196.3	245.0	294.0	344.0	393.0
		F2	412	82.4	123.4	164.8	206.0	247.2	288.4	329.6
32	12	F1	803	160.6	240.9	321.2	401.5	481.8	562.1	642.4
		F2	691	138.2	207.3	276.4	345.5	414.6	483.7	552.8
40	14	F1	1257	251.0	377.0	503.0	628.0	754.0	880.0	1010.0
		F2	1103	220.6	330.9	441.2	551.5	661.8	772.1	882.4
40	16	F1	1257	251.0	377.0	503.0	628.0	754.0	880.0	1010.0
		F2	1056	211.0	317.0	422.0	528.0	633.0	799.0	844.0
50	20	F1	1963	393	589	785	982	1178	1374	1571
		F2	1649	330	495	660	825	990	1155	1319
63	20	F1	3120	623	935	1247	1559	1870	2180	2490
		F2	2800	561	841	1121	1402	1680	1962	2240
80	25	F1	5030	1005	1508	2010	2510	3020	3520	4020
		F2	4540	907	1361	1814	2270	2720	3170	3630
100	30	F1	7850	1571	2360	3140	3930	4710	5500	6280
		F2	7150	1429	2140	2860	3570	4290	5000	5720
125	32	F1	12270	2450	3680	4910	6135	7360	8590	9820
		F2	11460	2290	3440	4580	5730	6880	8020	9170
160	40	F1	20100	4020	6030	8040	10050	12060	14070	16080
		F2	18840	3760	5650	7530	9400	11300	13180	15070
200	40	F1	31420	6280	9420	12560	15710	18850	21990	25130
		F2	30140	6020	9040	12050	15070	18080	21090	24110
250	50	F1	49060	9812	14718	19624	24530	29436	34342	39248
		F2	47100	9420	14130	18840	23550	28260	32970	37680
320	63	F1	80384	16077	24115	32154	40192	48230	56269	64307
		F2	77268	15454	23180	30907	38634	46361	54088	61814