# 过滤器系列 Filter series





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国家高斯技术企业 浙江省著名而标 www.cndonjoy.com>







目录技术资料仅供设计参考。 设计更新和技术升级总不另行通知!

不断革新的技术、日新月异的市场发展和客户需求 是当今我们面临的最大挑战。面对这些挑战我们信 心十足,因为东正高度专业化的产品和技术创新。 是我们未来将以更高。更优的产品来满足不断增长 的市场高水。

Technological innovation, rapid development of the market and customer needs are the greatest challenges facing us today. Facing with these challenges we are confident, because of highly professional products and technological innovation, we will meet the growing demand of market and customer with our better and better products.

#### 法律声明:

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东正众多技术设计,都具有专利保护、加有炒菜。 东正必将追究法律责任和经济赔偿。

## 领先源于创新 创新源于专业 东正的专业与品质的邂逅源于创新的精神



现代化工厂已经投产,期待您的光临! 温州空港经济园区生产基地 Wenzhou airport economic zone produ**č**tion base

占地面积29000m。总投资1.2亿元、新引度工业机器人、5轴加工中心、机器人抛光设备。

Covering an area of 29000 m<sup>2</sup>, with total investment after construction is expected to 120 million yuan, introduces new industrial robot, five axis machining center, machine Polishing equipment.

东正创立于1996年,注册资金5508万,是一家专注于研发高品质PLD过程控制器、阀门定位器、流量控制器,阀门控制单元,适洁净过程控制阀、智能自控阀、高洁净泵、高洁净管材和管道配件。公司高度专业化的产品和技术专注于生物制药、食品饮料、酿酒、精细化工等工业领域。东正众多的创新解决方案,对满足全球,尤其是新兴市场不断增长生物制药和食品饮料行业的需求起到了积极作用。

东正制造的产品母材料、加工技术、焊接技术、表面处理等技术指标均已达到国内外先进水平。且符合ASME BPE、EHEDG、FDA、3A等一系列国际标准和规范要求,先后通过了由德国 TÜV机构实施的欧盟承压设备指令(PED-97/23/EC)和(MD-06/42/EC)认证、美国 3A机构实施的3-A卫生标准认证、中国安全阀特种制造设备(TS)许可证和中国质量认证中心CQC ISO9001:2008 质量管理体系认证等多项国际权威认证。

东正凭借先进的技术、优异的品质和完善的售后服务体系, 先后被评定为国家高新技术企业,省著名商标、省科技型企业、创新型企业、专利示范企业、研发中心企业,守合同重信用AAA企业等众多荣誉。



## 关于东正 About DONJOY

Donjoy was built up in 1993, with registered capital RMB 55,08 millions. We focus on developing high quality PID process controller, the valve positioner, the flow controller, the valve control unit, high purity process control valve, intelligent self—control valve, high purity pump, high purity tubing fitting and pipeline accessories. Donjoy's products and technologies are widely used in biopharmaceutical, food, drink, wine fine chemicals and other industrial fields. Donjoy's innovation solutions meet the growing demand of the industry of biopharmaceutical, food and beverage from the whole world, especially the emerging market.

Raw material, processing technology, welding technology, surface treatment from Donjoy have achieved advanced levels of domestic and foreign marekt. Donjoy productions according to ASME BPE, EHEDG, FDA and 3A standard, get certificate of PED-97/23/EC and MD-06/42/EC issued by TUV, 3A issued by 3A organization, TS licence and ISO9001:2008.

Donjoy with advanced technology, excellent quality and perfect after-sales service system, has been assessed as the national high-tech enterprises, the Provincial Famous Trademark, the Trovincial Science and Ttechnology Enterprises, Innovative Enterprises, Patent Model Enterprises, R & D Center, AAA Credit Enterprises.



创立于2005年现代化工 温州滨海经济开发区生产基地 Wenzhou binkât economic development zone production base

# DONJOY high-putity valve, pump, control system, pipe and accessories, provide the most excellent solution for various business scopes.



## 制造与检验 Manufacturing and testing



DONJOY以科学技术是第一生产力, 也是企业核心竞争力,只有不断投入核心技术研发和创新, 不断追求卓越,精益求精、以先进生产设备, 严格的质量管理体系,精密的生产检测流程, 保证每一款产品优良的性能。

Science and technology constitute a primary productive force, also the core competitive strength of the enterprise. Continuously intensifying the research, development and innovation of core technology, pursuing prominence and keeping improving, ensuring the excellent quality and performance of every single product by advanced production equipment, strict quality control and precise production and inspection procedures.



## 荣誉与资质 Honor and qualification



#### 3A

东正是美国3A认证组织的金牌赞助商,3A是一个自愿组织,致力于维护公共卫生和如制品产品质量通过独特的行业监管程序的设备,用于处理乳制品的卫生标准3A认证。东正通过认证产品,阀门系列55-02-1783、64-00-1784、84-02-1786、85-03-178753-06-1782、54-02-1580、68-00-1785,管件(63-03)证书号(1581)等多种规格型号。



#### PED/97/23/EC & MD/06/42EC

东正通过了TUV 欧共体压力设备97/23/EC质量 保证模式H&材料(管件)制造认证。 阀门证书 NO.CE 0036 泵类证书 NO.705201402401-00



#### FDA177.2600

东正生产的阀门和泵以及流体设备等,复物制接触密封圈全部通过 或符合美国食品和药品管理局和联邦法规第24条例,CRF 21 FDA177.2600和 FDA177.1550认证,其涵盖: EPDM VITON(FPM) SILICON ANBRETFE 橡胶塑料材料等。



#### ISO9001/2008

东正通过中国质量认证中心CQC,ISO9001-2008/GB/T19001-2008企业 质量管理体系认证。其证书编号: 00108Q24215R1M/3302



#### 卫生许可证

东正通过了省卫生厅卫生阀门、卫生管件等检验, 且获得了其颁发的证书,其编号: So083。 其许可证为国家出台的生活饮用水卫生监督管理方法证书。



#### 高新技术企业

东正通过多年发展和技术创新已获得了多项国家发明专利,100多项实用 新型专利,现已成为国家高新技术企业。



#### 浙江省著名商标

东正09年获得了温州市著名商标,2012年获得了浙江省著名商标。

DONJOY不但拥有以上认证和荣誉,且被评定为省科技型、创新型、专利示范、研发中心、守合同守信用企业等众多的荣誉证书。





## 过滤器(直通、角式、Y型) Filter(straight, angle, Y type)

#### 应用 Applications

在食品加工, 化妆品和一些化学工业, 还有制药工业的辅助服务 中,过滤器有着广泛的应用。它的设计卫生,应用于过滤会对泵 和其它设备造成损坏的颗粒。

Filters are widely used in the auxiliary service for food processing, cosmetic, chemicals and pharmacy industries. Due to its hygienic design, it is mainly used to filter the particulates that destroy pumps and some other equipments.

#### 工作原理 Operating principles

该过滤器基本上由带进口和出口的过滤体组成, 筛网装于过滤体 的内部, 筛网保留所有等于或大于网孔的颗粒。

The filter consists of inlet and outlet housing, inner screen mesh to filter the particulates and impurities which can't pass the mesh.

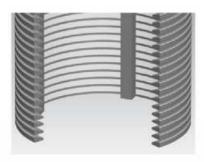
#### 材质Materials

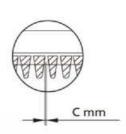
过滤体: AISI 316L AISI304

Housing: AISI316L/AISI304, Gasket: EPDM according to









#### 扁型开口滤网 Wedge screen

目数 EQ.MESH	间距 C(en mm)	有效面积 Useful Nin. 1
40	0.40	23%
60	0.30	23%
80	0.20	17%
166	0.10	10%
325	0.05	3%



管道过滤器滤芯 Filter Element

#### 筛网 Metal mesh

#### 多孔板 Perforated plate



#### 选项 Options

垫圈:	Silicon MVQ FPM
连接:	卡箍、螺纹、焊接
标准:	DIN,SMS,RJT,IDF,3A
F-171	0.5700.0

网孔: 0.5mm到2.0mm 筛网: 30目到300目 Gaskets:silicon MVQ FPM
Connections:clamp,Thread,weld
Standard:DIN,SMS R.V., IDF 2A
Mesh Size:0.Smm to 2.0mm

#### 拆卸 Disassembly

拆卸时请务必保证管道里面沒有任何的液体或物料,否则会导致 人身伤害。用合适的扳手或夹钳工具拧开卡箍螺母;取出卡箍; 用手抬起环形手柄。有满芯取出,这样就可以清洗、更换。

Note: For security Pls make sure there is no media in pipeline Screw the nut by wrench or jaw, and then take off the clamp, and withdraw the handle together with the fliter element. Finally, you can do the cleaning and replancement safely.

#### 技术规范 Technical Specifications

现格: DN25-DN150 1'-6'

工作温度: -10℃到+120℃(EPDM)14oF到248oF+140℃

(SIP,30分)284oF

最大工作压力: 10bar 145PSI

Sizes: DN25-DN150 1"-6"

Working temperature: -10°C to+120°C(EPDM) 14oF to 248oF

+140°C (SIP,max.30min) 284oF

Max.working pressure: 10bar 145PSI

### 筛网: 金属网 Metal Mesh

阿孔目数 Mesh	B (mm)	有致面积 Useful Surface(%)
30	0.55	48
40	0.40	46
60	0.30	52.6
80	0.20	42
100	0.15	36.2
165	0.10	45.4

#### 筛网:多孔板 Perforated Plate

A (mm)	有效面积 Useful Surface(%)
0.5	15
1	28
1.5	33
2	30
3	33
5	46



## 过滤器(直通、角式、Y型) Filter(straight, angle, Y type)



#### 概述 Summarize

过滤器是除去液体中少量固体颗粒的小型设备,可保护压缩机、泵、仪表和其它设备的正常工作,当流体进入置有一定规格滤网的滤筒后其杂质被阻挡,而清洁的滤液则由过滤器出口排出,当需要清洗时,只要将可拆卸的滤筒取出,处理后重新装入即可,因此,使用维护极为方便

该系列过滤器具有结构系奏 过渡能力大、压损小、适用范围 广、维护方便、价格低廉等优点其主要适用的物料有食品、制药生产中有卫生要求的物料,如:啤酒、饮料、乳制品、糖浆等。

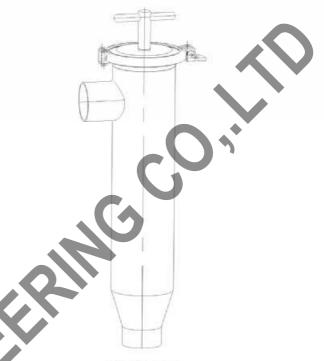
Filter is used to eliminate the small particulates from compressors, purios, meters and some other equipment. When liquids flow through the screen, impurity can be held up. And then pure liquids come out brough the outlet. When cleaning is needed, you just draw out the cartridge. And put it back after cleaning, it is a very convenient process. Such series filters are compact designs. Strong filter power. Small damage. Favorable price, they are mainly used in food, beverage, dairy and pharmacy industries.

角式过滤器,无需拆卸管道, 松开过滤器的螺母或卡箍即可取下滤网。如图所示

Angle type filter: No need to disassemble pipeline, just loose the nut or clamp, then the mesh can be took off easily as shown on right figure.

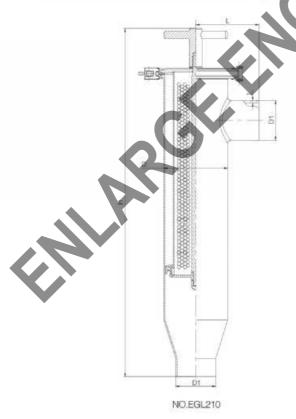






中头卡箍式过滤器

角式过滤器外形尺寸 Dimension of Angle type Fliter



SIZE					Ð	
SIZE	- 5	L	(4)	2	,	
DN25	431	77.5	28	29	85	1.5
DN32	431	77.5	34	.35	85	1.5
DN40	431	77.5	40	41	85	1.5
DN50	431	77.5	52	53	85	1.5
DN65	561	101	70	100	102	20
DN80	580	107	85		114	20
DN100	724	105.5	100	-	154	2.0

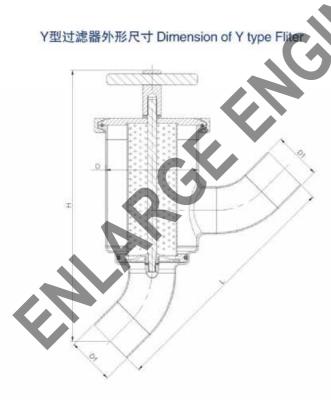
SIZE				
1'	431	77.5	25.4	85
11/4"	431	77.5	31.8	85
11/2	431	77.5	38	85
2"	431	77,5	50.8	85
21/2	561	101	63,5	102
3'	580	107	76.2	114
31/2"	580	107	89	114
4*	724	105.5	101.6	154



# 过滤器(直通、角式、Y型) Filter(straight, angle, Y type)







NO.EGL310

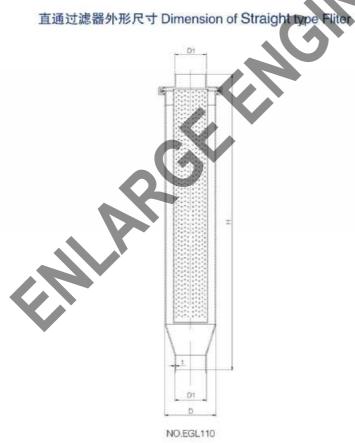


SIZE			D .	1	Đ	
SILE	H	L	1.	2	, b	
DN25	282	204	28	29	102	1.5
DN32	292	226	34	35	102	1.5
DN40	293	242	40	41	102	1.5
DN50	313	280	52	53	102	1.5
DN65	384	362	70	-	114	20
DN80	401	406	85	-	114	20
DN100	544	460	104	-	154	2.0

SIZE				
1,	280	204	25.4	102
17,0	290	226	31.8	102
11/3*	298	242	38	102
2"	315	280	50.8	102
21/4"	387	362	63.5	114
3"	407.	406	76.2	-114
31/2"	410	406	89	114
4"	554	460	101.6	154







SIZE		10	71	D	
	l !! [	1	2	<i>u</i>	1 2
DN25	406.5	28	29	85	1.5
DN32	406.5	34	35	85	1.5
DN40	406.5	40	41	85	1.5
DN50	406.5	52	53	85	1.5
DN65	485	70	(e-	102	2.0
DN80	534	85		114	2.0
DN100	642	104	-	154	2.0

SIZE		D1	
1"	406.5	25.4	85
11/4"	406.5	31.8	85
11/2*	406.5	38	85
Z	406.5	50.8	85
21/2"	485	63.5	102
3"	534	76.2	114
31/2*	534	89	114
4'	642	101.6	154



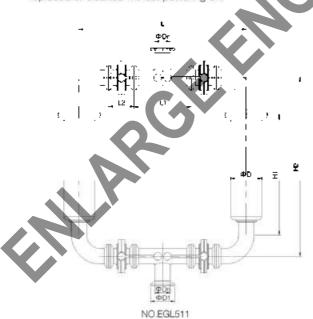
## 双联过滤器 Duplex filter



#### 应用Applications

该双联过滤器适用于去除鲜奶、糖液、饮料等液体中各桶内肉眼 无法看见的固体物的净化。两只过滤器交替使用,可不停机更换 或洗滤网,适用于长期连续生产。

This duplex filters is applied to eliminate the invisible solids from dairy, beverage and pulps, so as to purify the liquids. The two filters can run alternatively and continually. Because they can be replaced or cleaned without powering off.



#### 双联过滤器(直通型) Duplex filter(Straight type)

SIZE	Dn		D1			12		
2"	51	85	64	532	200	76	360	557

#### 技术规格Technical specifications

过滤体: AISI 316L、AISI 304 垫圈: EPDM FDA 177.2600 内表面处理: Ra < 0.8 μ m 外表面处理: 镜面抛光 网孔: 0.5mm to 2.0mm 筛网: 30目 to 300目 尺寸: DN 25-DN150/1'-6'

工作温度: -10℃到120℃(EPDM)14OF到248OF

+140°C(SIP, 30分)284OF

最大工作压力: 10bar 145PSI

Cartridge: AISI 316L/AISI 304

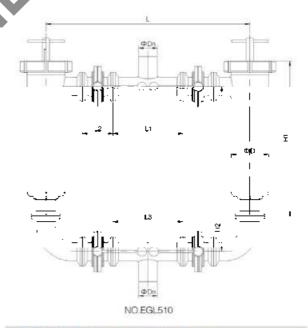
Gasket: EPDM according to FDA 177.2600

Inner polish:Ra < 0.8 km External polish:mirror polish Screen hole:0.5 mm - 2.0 mm Screen:20 - 300 mesnes Size;DN 25 - 2N150/1"-6"

Verking temperature:-10°C to 120°C (EPDM)140F to 2480F

+140°C(SIP,max.30 min)2840F

Max working pressure: 10bar 145PSI



#### 双联过滤器 Duplex filter(Angle type)

SIZE	Dn	Đ			12	L3		
1.5	38	85	510	190	70	190	369	362
2"	51	85	532	200	76	200	369	362
2.5	63.5	102	605	218	80	218	505	529
3"	76	114	632	210	84	210	523	522
4"	101.6	154	799	337	104	254	650	693

### 微孔过滤器 Micro-filter

#### 运用原理 Operating principles

微孔过滤器它可以滤除液体、气体的0.1 μ m以上的微粒和细菌, 它有过滤精度高、过滤速度快、吸附少、无介质脱落、耐酸碱腐 蚀、操作方便等特点。现已广泛用于医药、化工、电子、饮料、 果酒、生化处理、环保等工业的必须设备。

其特点是体积小、重量轻、使用方便、过滤面积大、堵譬率低、 过滤速度快、无污染、热稀稳定性及化学稳定性好。

用户在使用前,必须根据过滤用途、介质情况、配置不同形式、不同材质的滤芯。如GMP厂制药用水,可以和5um个1.0um摺叠膜筒式滤芯两组串接使用。在发酵工业中空气过滤,可以对送入空气进行除菌,除噬菌体过滤,也可封排出尾气进行处理,达到美国细菌过滤HIM标准。

Micro-filter can eliminate the particulates and bacteria larger than 0.1 µm from liquid and gas. It has the following advantages; high precision, fast speed.Low adsorption,no media fall off,acid resistant,lye-resistant. Easy operation,It is widely used in pharmacy, chemical,winery,beverage industries.Etc.

Futures:small volume, light weigh, large filter area, low jam, fast filter speed. Non-pollution, good chemical and calorific stabilities. Users should configure different material and type of filter for different purpose and medium. for example, for GMP pharmacy water, we use 5urn and 0.1um folded sleeve filters tandem. Another one, In ferment industry, before inputting air, this filter can annihilate the bacteria; in addition, it can dispose the exhaust till the gas reaches HIM standard.

#### 应用 Applications

在食品加工, 化妆品和一些化学工业, 还有制药工业的辅助服务中, 过滤器有着广泛的应用。

Filters are widely used in the auxiliary service for food processing, cosmetic, chemicals and pharmacy industries.

#### 技术规格 Technical Specifications

过滤量T/H:0.5t/h~25t/h

滤器使用压力mpa: 0.1-0.6

滤筒: 1芯、3芯、5芯、7芯

滤桶高度: 10°、20°、30°、40°

滤芯材质: 聚四級 / 焔(PTFE)、聚矾(PE)、尼龙(Nylon)、聚丙烯(PP)等 过滤孔 (各有: 0.1 μm、0.22 μm、1 μm、3 μm、5 μm、10 μm 分疏水性(适用于气体)和亲水性(适用于液体)

a芯. 可根据需要选用。

内表面处理: 粗糙度Ra<0.2 μ m。

滤桶材质: ASTM304/316L

Capacity:0.5t/h-25t/h

Pressure:0.1-0.6mpa

Filter Seat:1 core,3 cores,5 cores,7 core

Length: 10", 20", 30", 40"

Cartridge:PTFE/PE/NYLON/PP

Hole dia: 0.1  $\mu$  m,0.22  $\mu$  m,1  $\mu$  m, 3  $\mu$  m,5  $\mu$  m,10  $\mu$  m

Water alien fliter(for gas)Water intimate filter(for liquid)

Internal Surface polish:Ra < 0.2 µ m Cartridge Material:ASTM304/316L



#### 技术规格 Technical Specifications

根据过滤用途、介质情况、配置不同形式、不同材质的滤芯。如 GMP 制药用水,可以和5μm和1.0μm摺叠膜筒式滤芯两组串 接使用。在发酵工业中空气过滤,可以对送入空气进行除菌,除 噬菌体过滤,也可封排出尾气进行处理,达到美国细菌过滤 HIM标准。

滤芯材质: 聚丙烯膜(PP)滤芯,聚四氟乙烯膜(PTFE)滤芯,醋酸 纤维膜(CN-CA)滤芯。

滤芯精度: 0.1-60 μ m

长度有10; 20; 30和40英寸(即250; 500; 750; 1000mm)

滤芯耐压: 0.42Mpa.可反冲。

接口方式有插入式(222、226座二种)和平嘴式二种。

Users should configure different material and type of filter for different purpose and medium. For example, for GMP pharment industry, before inputting air, this filter can annihilate the bacteria; in addition, it can dispose the exhaust till the gas reaches HIM standard.

Materials for filter.PP/PTFE/CN-CA

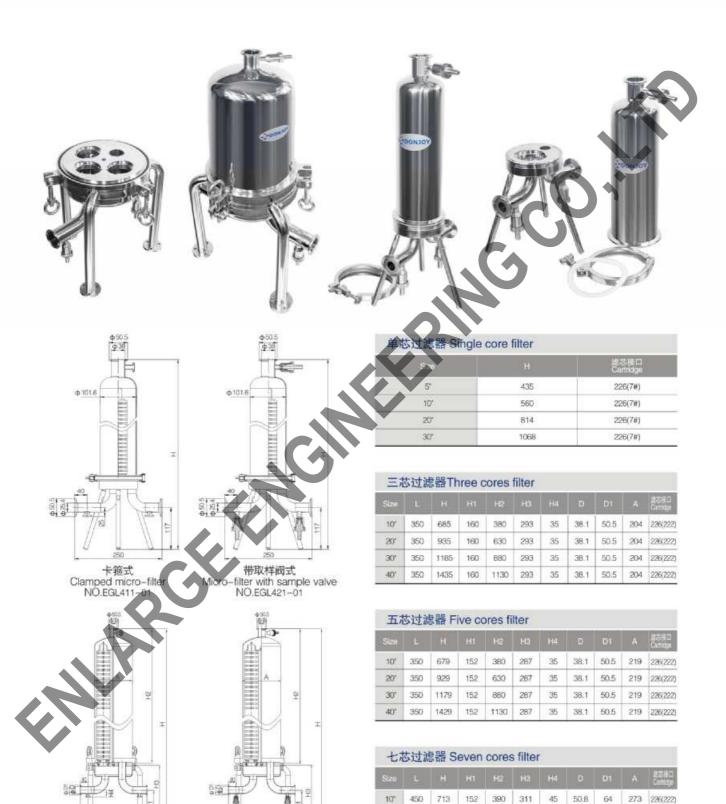
Presicion:0.1-60 µ m

Length:10",20",30",40"(250,500,750,1000mm)
Pressure resistance: 0.42Mpa, Bounce-backed
Connections: plugged(222,226)/flat nib style





## 微孔过滤器 Micro-filter



152

152

152

450

450

201

40" 450

带取样阀式

Micro-filter with sample valve

NO.EGL421-03/05/07

963

1213

1463

640

890 1 311

1140

311

311

45

45

45

50,6

50.8

50.8

64

64

64

273

273

273

226(222)

226(222)

226(222)

卡箍式

Clamped micro-filter

NO.EGL411-03/05/07

## 空气呼吸器 Rebreather

#### 应用 Applications

- ●利用微孔过滤器的过滤原理, 防止储罐因液位下降吸入空气时 外部空气中尘埃粒子的进入, 保证了罐内空气的洁净度。
- ●売体材料采用进口316L或304
- ●内表面经抛光处理
- ●表面粗糙度Ra≤0.2μm
- ●通量: 0.75m³/min、1.5m³/min、3m³/min
- ●接口方式:卡箍式、法兰
- The principle is same as micro-filter's. It can prevent the outside particulates coming into the storage tank due to the liquid level descends. It ensures the air purity in the tank.
- Housing material: 316L/304
- Inner surface are polished
- Surface roughness: Ra≤0.2 µ m
- Capacity: 0.75m³/min, 1.5m³/min, 3m³/min
- Connection: Clamped, Flanged



## 过滤器+冷凝水排放阀 Filter+cordersation water





## 应用 Applications

**减适用于食品、改料,制药等卫生洁净车间。** 

不銹钢制作, AISI304/316L

M\*-4\*, DN25-DN100

设计有网孔和污染头防止颗粒污料进入堵塞排泄管道

可取下盖子和污料斗清洗地漏防止细菌繁殖

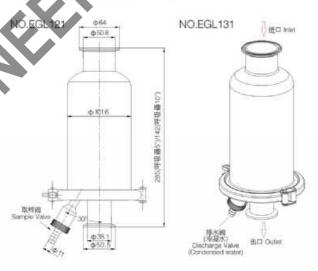
The drainer is used in the hygienic workshops of food processing, pharmacy industries

Material: AISI304/316L

Size:1"-4",DN25-DN100

Metal meshes and hopper can keep dirty particulates from blocking pipeline

Cover and hopper can be cleaned to prevent bacteria from propagating





		Ð	D1
15	80	25	130
1.5"	80	38	130
2*	100	51	195
2.5"	100	63	195
3"	130	76	230
4"	130	100	230







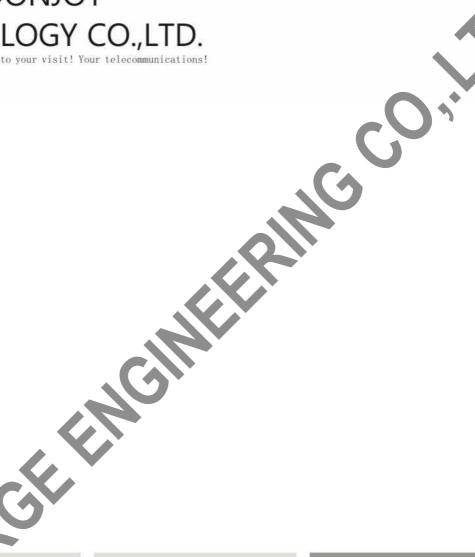






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