

各种消毒方法对快速接头的影响

The influence of various disinfection methods on quick connectors

材料 MATERIAL	消毒液 DISINFECTANTS			环氧乙烷 ETHYLENE OXIDE	高压灭菌器 AUTOCLAVE	电子束 EBEAM IRRADIATION	伽马辐射 GAMMA IRRADIATION	高温 DRY HEAT
	甲醛溶液 Formalin	异丙醇 IsopropylAlcohol	乙醇 EthylAlcohol			5 MRad 5 Megarads	5 MRad 5 Megarads	121°C 250°F

金属 (Metals)

302不锈钢 (302 Stainless Steel)	Y	Y	Y	Y	Y	Y	Y	Y
316不锈钢 (316 Stainless Steel)	Y	Y	Y	Y	Y	Y	Y	Y
CDA360镀铬黄铜 (Chrome-Plated Brass-CDA 360)	N	Y	Y	Y	Y	Y	Y	Y

主干体塑料 (Main body plastic)

ABS	N	N/A	Y	Y	N	Y	Y	N
聚甲醛 (Acetal)	Y	Y	Y	Y	Y	N	N	N
低密度聚乙烯 (LDPE)	Y	Y	Y	Y	N	Y	Y	N
尼龙 (Nylon)	Y	N	N	Y	N	N	N	N
聚碳酸酯 (Polycarbonate)	Y	Y	Y	Y	Y	Y	Y	Y
聚丙烯 (Polypropylene)	Y	Y	Y	Y	N	Y	Y	N
聚砜 (Polysulfone)	Y	Y	Y	Y	Y	Y	Y	Y

密封圈 (O-Ring)

丁晴橡胶Buna-N (Nitrile / Buna-N)	Y	Y	Y	N	N	Y	Y	Y
硅胶 (Silicone)	Y	Y	Y	Y	Y	Y	Y	Y
全氟化橡胶 (Kalrez)	Y	Y	Y	Y	Y	N	N	Y
三元乙丙橡胶 (EPR/EPDM)	Y	Y	Y	Y	Y	Y	Y	Y
碳氟橡胶, 例如 (FKM / Viton™)	Y	Y	Y	N	N	N	N	Y

消毒方式 (Sterilization Methods)

消毒药液：20°C 室温，包括甲醛溶液、丙醇或乙醇。
进行消毒时，母座和插嘴可以互相连接或个别分离。
Disinfectants : 70°F (20° C), Formalin, ethyl alcohol, etc.
Sterilize coupled or uncoupled.

环氧乙烷：四小时，使用43°C的纯环氧乙烷，最多重复五次。进行消毒时，母座和插嘴可以互相连接或个别分离。
Ethylene Oxide, EtO : Four hours, 100% EtO @ 110° F (43° C) up to five repetitions, coupled or uncoupled.

高压蒸汽灭菌器：121°C，重复最多十次，每次最多30分钟。进行消毒时，母座和插嘴必须个别分离。
Autoclave : 250° F (121° C), 30 min. max, up to 10 repetitions. Sterilize uncoupled only.

电子束：20°C 室温，最高的累积辐照最值是50 Kilograys。进行消毒时，母座和插嘴可以互相连接或个别分离。
Electron Beam : Maximum cumulative exposure of 50 kilograys. Sterilize coupled or uncoupled.

伽玛辐射：20°C室温，最高的累积辐照量值是50 Kilograys。进行消毒时，母座和插嘴可以互相连接或个别分离。
Gamma : Maximum cumulative exposure of 50 kilograys
Sterilize coupled or uncoupled.

高温：121°C，十二小时，无压力下进行进行消毒时，母座和插嘴必须个别分离。
Dry Heat : 250°F (121° C), 12 hours, no pressure. Sterilize uncoupled only.

注释：

Y: 此灭菌方法为推荐材料
(recommended material for this sterilization method)

N: 不推荐
(not recommended)

N/A: 不适用
(Not applicable)



化学相容性

Chemical compatibility

化学药品会影响制造快速接头物料的强度、外观、颜色、尺寸或重量。因此，我们提供下列关于化学相容性的资料以供参考。如需查询下列表格外其他化学药品的资料，请与本公司联络。由于个别物料的化学相容性受许多其他因素影响，客户有责任应用测试我们的产品。

Chemicals can affect the strength, appearance, color, size, or weight of materials used in the manufacturing of quick connectors. Therefore, we provide the following information on chemical compatibility for reference. If you would like to inquire about the information of other chemicals outside of the table below, please contact our company. Due to the influence of many other factors on the chemical compatibility of individual materials, customers have the responsibility to apply and test our products.

表格注解:

- A: 优秀,没有可见的反应
(Excellent, no visible response)
- B: 良好,有极轻微的反应
(Good, with extremely mild reactions)
- C: 一般,具有反应,不宜长期使用
(General, reactive, not suitable for long-term use)
- D: 不良,有严重的反应,绝对不能使用
(Adverse, serious reactions, absolutely not to be used)
- N/A: 数据不详
(Data not available)

材料物质 (Material substance)											
化学药品 (hemical)	主干体塑料 (Main body plastic)					金属 (Metals)		密封圈 (O-Ring)			
	聚甲醛 (Acetal)	ABS	聚丙烯 (Polypropylene)	聚砜 (Polysulfone)	聚碳酸酯 (Polycarbonate)	镀铬铜 (Chrome-Plated Brass)	316不锈钢 (316 Stainless Steel)	丁腈橡胶 (Nitrile / Buna-N)	三元乙丙橡胶 (EPR/EPDM)	氟橡胶 (FKM / Viton®)	硅胶 (Silicone)
醋酸 (Acetic Acid)	D	C	B	A	B	D	A	D	A	D	B
丙酮 (Acetone)	A	D	A	D	D	A	A	D	A	D	C
空气 (Air)	A	A	A	A	A	A	A	A	A	A	A
氨气 (Ammonia, Anhydrous)	D	B	A	A	D	D	A	B	A	D	C
苯 (Benzene)	A	D	D	D	D	N/A	B	D	D	A	D
二氧化碳 (Carbon Dioxide)	A	B	B	N/A	N/A	A	A	A	B	B	B
氯水 (Chlorine Water)	D	A	A	B	N/A	D	C	D	C	A	D
乙醇 (Ethanol)	A	A	A	C	B	A	A	A	A	A	A
乙二醇 (Ethylene Glycol)	B	A	A	A	B	A	A	A	A	A	A
低含量铅汽油 (Gasoline, Unleaded)	A	D	C	C	A	A	A	B	D	A	D
氢氯酸 (Hydrochloric Acid)	C	C	B	A	D	D	D	D	C	A	D
氢氟酸 (Hydrofluoric Acid)	D	C	C	D	D	D	B	D	D	B	D

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丙醇 (Isopropyl Alcohol)	A	A	A	A	A	B	B	B	B	B	A
丁醇 (Methyl Ethyl Ketone)	C	D	B	D	D	A	A	D	A	D	D
甲醇 (Methanol)	A	D	A	C	B	A	A	A	A	D	A
氧气 (Oxygen)	A	B	A	A	A	A	A	B	A	A	A
臭氧 (Ozone)	C	B	B	A	A	N/A	A	D	A	A	A
次氯酸钠 (Sodium Hypochlorite)	D	N/A	B	A	N/A	D	N/A	C	B	A	B
水蒸气 (Steam)	A	N/A	A	A	A	A	A	D	A	D	C
硫酸 (Sulfuric Acid, Air-Free)	N/A	B	C	D	D	C	B	D	D	A	D
甲苯 (Toluene)	C	D	C	D	D	A	A	D	D	C	D
三氯乙烯 (Trichloroethylene)	D	D	C	C	N/A	B	B	D	D	A	D
纯水 (Water, Fresh)	A	A	A	A	A	C	C	A	A	B	A

聚甲醛：坚固、轻巧和价钱实惠,广泛用于制造一般机械组件或处理温和化学药品。

Polyoxymethylene : sturdy, lightweight, and affordable, widely used in the manufacturing of general mechanical components or in the treatment of mild chemicals.

聚丙烯：对多种危险性高的化学品有优越的化学相容性,并且能经受多种消毒方法,常用于滤水器材。

Polypropylene : It has superior chemical compatibility with various high-risk chemicals and can withstand various disinfection methods, commonly used in water filtration equipment.

聚砜：有优越的强度,良好的化学相容性,能经受得住反复的消毒过程,可承受的温度也较其他塑料为高,常用于医疗设备和生物制程。

Polysulfone : It has superior strength, good chemical compatibility, can withstand repeated disinfection processes, and can withstand higher temperatures than other plastics. It is commonly used in medical equipment and biological processes.

聚碳酸酯：透明,有良好的化学相容性,能经受反复的消毒过程,常用于医疗设备。

Polycarbonate : Transparent, with good chemical compatibility, able to withstand repeated disinfection processes, commonly used in medical equipment.

镀铬铜：坚固的金属物料,外表美观,能承受较高的压力和温度,常用于各类科学仪器,配合运送气体或处理真空的管道。

Chromium plated copper : A sturdy metal material with a beautiful appearance that can withstand high pressure and temperature. It is commonly used in various scientific instruments, as well as pipelines for transporting gases or handling vacuum.

ABS：可供医护器材用的热塑料,价格便宜,可配合多种消毒方法进行消毒。

ABS : Thermoplastic that can be used for medical equipment, is cheap and can be disinfected with various disinfection methods.

详细参数

Detailed parameters

S

PP

V

500

2

E

02

XX

公母接头

材料

阀门

流量大小

主体形状

密封圈材质

倒刺大小

扩展后缀

(Socket/Plug)

(Material)

(Valve)

(Flow size/Latch type)

(Body shape)

(o-ring)

(Connection size)

(Extended Suffix)

产品标号指南				
Product Number Guide				
公母接头 (Socket / Plug)	S=母接头 (S= Socket)		P=公接头 (P= Plug)	
阀门 (Valve)	V=有阀 (V=Valved)		R=无阀 (R=No Valve)	
材料 (Material)	流量大小 (Flow size/Latch type)	主体形状 (Body shape)	密封圈材质 (o-ring)	倒刺大小 (Connection size)
AC=乙缩醛，醛缩醇 (AC=Acetal)	100=1/16"流量(旋锁) 100=1/16"Flow (Twist Lock)	01=外螺纹型 (01=Male Thread)	B=丁腈橡胶 (B=Buna-N)	01=1/16" M3=3mm
PP=聚丙烯 (PP=Polypropylene)	200=1/8"流量(金属插销) 200=1/8"Flow (Metal Latch)	02=准直式倒钩型 (02=In Line HB)	E=过氧化物固化 三元乙丙橡胶 (E=Peroxide Cured EPDM)	M8=8mm M10=10mm
CB=黄铜 (CB=Chrome Plated Brass)	300=1/8"流量(塑料插销) 300=1/8"Flow (Plastic Latch)	03=穿板式倒钩型 (03=Panel Mount HB)	EPDMF=食品级三元 乙丙橡胶 (F=Food Grade EPDM)	02=1/8" 025=5/32"
ABS=树脂 (ABS=ABS)	400=1/4"流量(金属插销) 400=1/4" Flow (Metal Latch)	04=直弯式倒钩型 (04=Elbow HB)	FB=FDA丁腈橡胶 (FB=FDA Buna-N)	03=3/16" 04=1/4"
PS=聚砜，聚砜树脂 (PS=Polysulfone)	420=3/32"流量(双管金属锁) 420=3/32"Flow (Dual TubeMetal Latch)	05=单倒钩型 (05=Single Barb HB)	S=Si 硅橡胶 (S=Si Silicon Rubber)	05=5/16" 06=3/8"
GP=玻璃填充聚合物 (GP=Glass Filled Polypro)		07=直弯单倒钩型 (07=Elbow, Single HB)		08=1/2"
		08=穿板式PTF型 (08=Panel Mount PTF)		
		注：		
		HB为管倒钩简写 HB Is The Hose Barb		

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材料 (Material)	流量大小 (Flow size/Latch type)	主体形状 (Body shape)	密封圈材质 (o-ring)	倒刺大小 (Connection size)
其他选项: (OTHER OPTIONS:)	500=1/4"流量(塑料插销) 500=1/4"Flow (Plastic Latch)	09=准直式PTF型 (09=In Line PTF)	其他选项: (OTHER OPTIONS:)	10=5/8" 1032=10/32"
AL=铝 (AL=Aluminum)	500B=1/4"流量(分离式插销) 500B=1/4"Flow (Breakaway Latch)	10=直弯式PTF型 (10=Elbow PTF)	V=氟橡胶 (V=Viton)	12=3/4" 16=1"
NB=镀镍黄铜 (NB=Nickel Plated Brass)	600=3/8"流量(塑料插销) 600=3/8"Flow (Plastic Latch)	12=穿板式外螺纹型 (12=Panel Mount Male Thread)	K=全氟醚橡胶 (K=Kalrez)	xx=可表示, 颜色, 内阀材质, 特殊型号作为扩展后缀 (Can be represented by color, inner valve material, and special models as extension suffixes)
RD=聚苯砵 (RD=Radel)	650=1/2"自由流动(塑料插销) 650=1/2"Free Flow (Plastic Latch)	13=准直式内螺纹型 (13=In Line Female Thread)	FK=Simriz橡胶 /Markez橡胶 (FK=Simriz / Markez)	
PC=聚碳酸酯 (PC=Polycarbonate)	1000=1/16"流量(塑料插销) 1000=1/16"Flow (Plastic Latch)	16=直弯式外螺纹型 (16=Elbow Male Thread)	BN=丁腈橡胶NSF 51 (BN=Buna-N NSF51)	MALD=杏仁色 (MALD=apricot)
SS=不锈钢 (SS=Stainless Steel)		17=准直式快插型 (17=In-Line Push-In)	EN=三元乙丙橡胶 NSF 51 (EN=EPDM NSF 51)	GS=橡胶垫片 (GS=rubber gasket)
		18=穿板式快插型 (18=Panel Mount Push-In)		英制圆锥管螺纹 (BSPT)
		19=穿板式内螺纹型 (19=Panel Mount Female Thread)		美制圆锥管螺纹 (NPT)
		22=穿板式直弯倒钩型 (22=Panel Mount In-Line Elbow HB)		